

FILE 'HOME' ENTERED AT 16:48:58 ON 15 MAR 2006

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS,
ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 16:49:09 ON 15 MAR 2006
ALL COPYRIGHTS AND RESTRICTIONS APPLY. SEE HELP USAGETERMS FOR DETAILS.

11 FILES IN THE FILE LIST

=> s il-12 or interleukin-12

FILE 'MEDLINE'

142536 IL
801344 12
9219 IL-12
 (IL(W) 12)
143659 INTERLEUKIN
801344 12
7693 INTERLEUKIN-12
 (INTERLEUKIN(W) 12)
11078 IL-12 OR INTERLEUKIN-12

L1 11078 IL-12 OR INTERLEUKIN-12

FILE 'SCISEARCH'

123911 IL
730031 12
10577 IL-12
 (IL(W)12)
138541 INTERLEUKIN
730031 12
5907 INTERLEUKIN-12
 (INTERLEUKIN(W)12)

12 12522 TL-12 OR INTERLEUKIN-12

FILE 'LIFESCI'

51897 "IL"
132100 "12"
5613 IL-12
("IL" (W) "12")
50626 "INTERLEUKIN"
132100 "12"
4314 INTERLEUKIN-12
("INTERLEUKIN" (W) "12")
6179 IL-12 OR INTERLEUKIN-12

13 6179 IL-12 OB INTERLEUKIN-12

FILE 'BIOTECHDS'

5049 IL
50167 12
798 IL-12
 (IL(W)12)
7762 INTERLEUKIN
50167 12
710 INTERLEUKIN-12
 (INTERLEUKIN(W)12)
1089 IL-12 OR INTERLEUKIN-12

14 1089 IL-12 OB INTERLEUKIN-12

FILE 'BIOSIS'

139709 IL
776495 12
11229 IL-12
(IL(W) 12)

193053 INTERLEUKIN
776495 12
11527 INTERLEUKIN-12
(INTERLEUKIN(W) 12)
L5 13566 IL-12 OR INTERLEUKIN-12

FILE 'EMBASE'
127043 "IL"
608286 "12"
8649 IL-12
("IL" (W) "12")
166336 "INTERLEUKIN"
608286 "12"
12748 INTERLEUKIN-12
("INTERLEUKIN" (W) "12")
L6 13803 IL-12 OR INTERLEUKIN-12

FILE 'HCAPLUS'
112192 IL
1373257 12
9577 IL-12
(IL(W) 12)
142078 INTERLEUKIN
1373257 12
11820 INTERLEUKIN-12
(INTERLEUKIN(W) 12)
L7 13556 IL-12 OR INTERLEUKIN-12

FILE 'NTIS'
1613 IL
88047 12
47 IL-12
(IL(W) 12)
514 INTERLEUKIN
88047 12
11 INTERLEUKIN-12
(INTERLEUKIN(W) 12)
L8 56 IL-12 OR INTERLEUKIN-12

FILE 'ESBIOBASE'
61997 IL
246422 12
7008 IL-12
(IL(W) 12)
55794 INTERLEUKIN
246422 12
2636 INTERLEUKIN-12
(INTERLEUKIN(W) 12)
L9 7688 IL-12 OR INTERLEUKIN-12

FILE 'BIOTECHNO'
51803 IL
132194 12
4353 IL-12
(IL(W) 12)
70465 INTERLEUKIN
132194 12
5396 INTERLEUKIN-12
(INTERLEUKIN(W) 12)
L10 5949 IL-12 OR INTERLEUKIN-12

FILE 'WPIDS'
10583 IL
1863200 12
1024 IL-12

(IL(W)12)
8497 INTERLEUKIN
1863200 12
 548 INTERLEUKIN-12
 (INTERLEUKIN(W)12)
L11 1324 IL-12 OR INTERLEUKIN-12

TOTAL FOR ALL FILES
L12 86810 IL-12 OR INTERLEUKIN-12

=> s l12(10a) (serine or cysteine or cys or ser)
FILE 'MEDLINE'
 89427 SERINE
 64935 CYSTEINE
 13011 CYS
 21267 SER
L13 27 L1 (10A) (SERINE OR CYSTEINE OR CYS OR SER)

FILE 'SCISEARCH'
 51760 SERINE
 47434 CYSTEINE
 13341 CYS
 21683 SER
L14 30 L2 (10A) (SERINE OR CYSTEINE OR CYS OR SER)

FILE 'LIFESCI'
 21346 SERINE
 18083 CYSTEINE
 6246 CYS
 10414 SER
L15 22 L3 (10A) (SERINE OR CYSTEINE OR CYS OR SER)

FILE 'BIOTECHDS'
 4804 SERINE
 4207 CYSTEINE
 2696 CYS
 4610 SER
L16 3 L4 (10A) (SERINE OR CYSTEINE OR CYS OR SER)

FILE 'BIOSIS'
 68149 SERINE
 59077 CYSTEINE
 14000 CYS
 22012 SER
L17 24 L5 (10A) (SERINE OR CYSTEINE OR CYS OR SER)

FILE 'EMBASE'
 56880 SERINE
 49498 CYSTEINE
 11600 CYS
 18933 SER
L18 24 L6 (10A) (SERINE OR CYSTEINE OR CYS OR SER)

FILE 'HCAPLUS'
 105667 SERINE
 100080 CYSTEINE
 19777 CYS
 34635 SER
L19 36 L7 (10A) (SERINE OR CYSTEINE OR CYS OR SER)

FILE 'NTIS'
 523 SERINE
 490 CYSTEINE
 70 CYS
 403 SER

L20 0 L8 (10A) (SERINE OR CYSTEINE OR CYS OR SER)

FILE 'ESBIOBASE'

27004 SERINE
23797 CYSTEINE
8427 CYS
12446 SER

L21 22 L9 (10A) (SERINE OR CYSTEINE OR CYS OR SER)

FILE 'BIOTECHNO'

28989 SERINE
22339 CYSTEINE
7657 CYS
11924 SER

L22 15 L10(10A) (SERINE OR CYSTEINE OR CYS OR SER)

FILE 'WPIDS'

8319 SERINE
8451 CYSTEINE
5099 CYS
9774 SER

L23 4 L11(10A) (SERINE OR CYSTEINE OR CYS OR SER)

TOTAL FOR ALL FILES

L24 207 L12(10A) (SERINE OR CYSTEINE OR CYS OR SER)

=> dup rem 124

PROCESSING COMPLETED FOR L24

L25 51 DUP REM L24 (156 DUPLICATES REMOVED)

=> d tot

L25 ANSWER 1 OF 51 MEDLINE on STN DUPLICATE 1

TI Vaccination with a preparation based on recombinant **cysteine** peptidases and canine IL-12 does not protect dogs from infection with Leishmania infantum.

SO Vaccine, (2006 Mar 24) Vol. 24, No. 14, pp. 2460-8. Electronic Publication: 2006-01-04.

Journal code: 8406899. ISSN: 0264-410X.

AU Poot J; Spreeuwenberg K; Sanderson S J; Schijns V E C J; Mottram J C; Coombs G H; Vermeulen A N

AN 2006119221 IN-PROCESS

L25 ANSWER 2 OF 51 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN

TI New peptides from the NS3 protein of hepatitis C virus (HCV), useful for prevention, treatment and diagnosis of HCV infection, particularly for use as vaccines;

vector-mediated host cell gene transfer and expression in host cell for use in recombinant vaccine and gene therapy

AU FOURNILLIER A; INCHAUSPE G; MARTIN P

AN 2005-18121 BIOTECHDS

PI FR 2862648 27 May 2005

L25 ANSWER 3 OF 51 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Cysteine variants of growth hormone and related proteins and their therapeutic uses

SO U.S. Pat. Appl. Publ., 66 pp., Cont.-in-part of U.S. 6,753,165.

CODEN: USXXCO

IN Cox, George N.

AN 2005:238410 HCAPLUS

DN 142:291899

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
PI US 2005058621	A1	20050317	US 2003-685288	20031013
WO 9903887	A1	19990128	WO 1998-US14497	19980713

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
WO 2000042175	A1	20000720	WO 2000-US931	20000114
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW	RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
US 6608183	B1	20030819	US 2000-462941	20000114
WO 2001087925	A2	20011122	WO 2001-US16088	20010516
WO 2001087925	A3	20020801		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
US 6753165	B1	20040622	US 2001-889273	20010906
US 2003171284	A1	20030911	US 2002-298148	20021115
US 2003162949	A1	20030828	US 2003-400377	20030326
US 2004018586	A1	20040129	US 2003-276358	20030410

L25 ANSWER 4 OF 51 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Aggregates of interleukin-2 and sodium dodecyl sulfate
 SO Ger. Gebrauchsmusterschrift, 40 pp.

CODEN: GGXXFR

AN 2005:959704 HCAPLUS

DN 143:292432

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	-----	-----	-----	-----
PI DE 202005001888	U1	20050901	DE 2005-202005001888	20050207

L25 ANSWER 5 OF 51 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Characterization of the Helicobacter pylori cysteine-rich protein A as a T-helper cell type 1 polarizing agent
 SO Infection and Immunity (2005), 73(8), 4732-4742
 CODEN: INFIBR; ISSN: 0019-9567
 AU Deml, Ludwig; Aigner, Michael; Decker, Jochen; Eckhardt, Alexander; Schuetz, Christian; Mittl, Peer R. E.; Barabas, Sascha; Denk, Stefanie; Knoll, Gertrud; Lehn, Norbert; Schneider-Brachert, Wulf
 AN 2005:684089 HCAPLUS
 DN 143:192228

L25 ANSWER 6 OF 51 MEDLINE on STN DUPLICATE 2
 TI Constitutive tyrosine and serine phosphorylation of STAT4 in T-cells transformed with HTLV-I.
 SO Genes to cells : devoted to molecular & cellular mechanisms, (2005 Dec Vol. 10, No. 12, pp. 1153-62.
 Journal code: 9607379. ISSN: 1356-9597.
 AU Higashi Takehiro; Tsukada Junichi; Yoshida Yasuhiro; Mizobe Takamitsu; Mouri Fumihiro; Minami Yasuhiro; Morimoto Hiroaki; Tanaka Yoshiya
 AN 2005644774 IN-PROCESS

L25 ANSWER 7 OF 51 MEDLINE on STN DUPLICATE 3
TI Interleukin-12-induced interferon-gamma production by human peripheral blood T cells is regulated by mammalian target of rapamycin (mTOR).
SO The Journal of biological chemistry, (2005 Jan 14) Vol. 280, No. 2, pp. 1037-43. Electronic Publication: 2004-11-01.
Journal code: 2985121R. ISSN: 0021-9258.
AU Kusaba Hitoshi; Ghosh Paritosh; Derin Rachel; Buchholz Meredith; Sasaki Carl; Madara Karen; Longo Dan L
AN 2005016914 MEDLINE

L25 ANSWER 8 OF 51 MEDLINE on STN DUPLICATE 4
TI Augmented IL-10 production and redox-dependent signaling pathways in glucose-6-phosphate dehydrogenase-deficient mouse peritoneal macrophages.
SO Journal of leukocyte biology, (2005 Jul) Vol. 78, No. 1, pp. 85-94.
Electronic Publication: 2005-04-07.
Journal code: 8405628. ISSN: 0741-5400.
AU Wilmanski Jeanette; Siddiqi Muhammad; Deitch Edwin A; Spolarics Zoltan
AN 2005343118 MEDLINE

L25 ANSWER 9 OF 51 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Preparing a serine-rich foreign protein (e.g. leptin) comprises culturing Escherichia coli containing a cysteine synthase gene and a gene encoding the foreign protein in a culture medium, and harvesting the foreign protein;
vector-mediated cysteine-synthase gene transfer and expression in host cell for recombinant protein production
AU LEE S Y; HAN M
AN 2004-20892 BIOTECHDS
PI US 2004157290 12 Aug 2004

L25 ANSWER 10 OF 51 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI New thiophene derivatives useful for the treatment or prevention of a flaviridea viral infection in a host.
PI WO 2004052885 A1 20040624 (200445)* EN 192 C07D409-12
RW: AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE
LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW
W: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE
DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG
KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM
PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US
UZ VC VN YU ZA ZM ZW
AU 2003291885 A1 20040630 (200472) C07D409-12
US 2005009804 A1 20050113 (200506) C07D403-02
EP 1569929 A1 20050907 (200559) EN C07D409-12
R: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LT LU LV
MC MK NL PT RO SE SI SK TR
BR 2003016771 A 20051025 (200571) C07D409-12
IN CHAN CHUN KONG, L; DAS, S K; HALAB, L; HAMELIN, B; NGUYEN-BA, N; PEREIRA, O Z; POISSON, C; PROULX, M; REDDY, T J; ZHANG, M; KONG, L C C; NGUYEN-BA, H; CHAN, C K L; MING-QIANG, Z

L25 ANSWER 11 OF 51 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI New thiophene derivatives are viral polymerase activity inhibitor useful to treat or prevent a Flaviviridae viral infection i.e. hepatitis C viral (HCV) infection.
PI WO 2004052879 A1 20040624 (200445)* EN 73 C07D333-38
RW: AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE
LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW
W: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE
DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG
KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM
PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US
UZ VC VN YU ZA ZM ZW
US 2004192707 A1 20040930 (200465) A61K031-52
AU 2003291886 A1 20040630 (200472) C07D333-38

IN CHAN CHUN KONG, L; DAS, S K; HALAB, L; NGUYEN-BA, N; PEREIRA, O Z;
POISSON, C; REDDY, T J; ZHANG, M; CHAN, C K L

L25 ANSWER 12 OF 51 MEDLINE on STN DUPLICATE 6
TI A Toll-like receptor 2 ligand stimulates Th2 responses *in vivo*, via
induction of extracellular signal-regulated kinase mitogen-activated
protein kinase and c-Fos in dendritic cells.
SO *Journal of immunology* (Baltimore, Md. : 1950), (2004 Apr 15) Vol. 172, No.
8, pp. 4733-43.
Journal code: 2985117R. ISSN: 0022-1767.
AU Dillon Stephanie; Agrawal Anshu; Van Dyke Thomas; Landreth Gary; McCauley
Laurie; Koh Amy; Maliszewski Charles; Akira Shizuo; Pulendran Bali
AN 2004183941 MEDLINE

L25 ANSWER 13 OF 51 MEDLINE on STN DUPLICATE 7
TI Impairment of IL-12-dependent STAT4 nuclear translocation in a patient
with recurrent *Mycobacterium avium* infection.
SO *Journal of immunology* (Baltimore, Md. : 1950), (2004 Mar 15) Vol. 172, No.
6, pp. 3905-12.
Journal code: 2985117R. ISSN: 0022-1767.
AU Toyoda Hidemi; Ido Masaru; Hayashi Tatsuya; Gabazza Esteban C; Suzuki
Koji; Bu Jun; Tanaka Shigeki; Nakano Takashi; Kamiya Hitoshi; Chipeta
James; Kisenge Rodrick R; Kang Jian; Hori Hiroki; Komada Yoshihiro
AN 2004129996 MEDLINE

L25 ANSWER 14 OF 51 MEDLINE on STN DUPLICATE 8
TI Inhibition of lipopolysaccharide-induced macrophage IL-
12 production by *Leishmania mexicana* amastigotes: the role of
cysteine peptidases and the NF-kappaB signaling pathway.
SO *Journal of immunology* (Baltimore, Md. : 1950), (2004 Sep 1) Vol. 173, No.
5, pp. 3297-304.
Journal code: 2985117R. ISSN: 0022-1767.
AU Cameron Pamela; McGachy Adrienne; Anderson Mary; Paul Andrew; Coombs
Graham H; Mottram Jeremy C; Alexander James; Plevin Robin
AN 2004421238 MEDLINE

L25 ANSWER 15 OF 51 MEDLINE on STN DUPLICATE 9
TI Microtubule-associated serine/threonine kinase-205 kDa and Fc
gamma receptor control IL-12 p40 synthesis and
NF-kappa B activation.
SO *Journal of immunology* (Baltimore, Md. : 1950), (2004 Feb 15) Vol. 172, No.
4, pp. 2559-68.
Journal code: 2985117R. ISSN: 0022-1767.
AU Zhou Hui; Xiong Huabao; Li Hongxing; Plevy Scott E; Walden Paul D;
Sassaroli Massimo; Prestwich Glenn D; Unkeless Jay C
AN 2004081773 MEDLINE

L25 ANSWER 16 OF 51 MEDLINE on STN DUPLICATE 10
TI A serine/threonine kinase, Cot/Tpl2, modulates bacterial
DNA-induced IL-12 production and Th cell
differentiation.
SO *The Journal of clinical investigation*, (2004 Sep) Vol. 114, No. 6, pp.
857-66.
Journal code: 7802877. ISSN: 0021-9738.
AU Sugimoto Kenji; Ohata Mutsuhiro; Miyoshi Jun; Ishizaki Hiroyoshi; Tsuboi
Naotake; Masuda Akio; Yoshikai Yasunobu; Takamoto Masaya; Sugane Kazuo;
Matsuo Seiichi; Shimada Yasuhiro; Matsuguchi Tetsuya
AN 2004461645 MEDLINE

L25 ANSWER 17 OF 51 MEDLINE on STN DUPLICATE 11
TI Interleukin-12 up-regulates perforin- and Fas-mediated
lymphokine-activated killer activity by intestinal intraepithelial
lymphocytes.
SO *Clinical and experimental immunology*, (2004 Nov) Vol. 138, No. 2, pp.
259-65.

Journal code: 0057202. ISSN: 0009-9104.

AU Ebert E C
AN 2004527611 MEDLINE

L25 ANSWER 18 OF 51 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Cysteine derivatives of GM-CSF and related proteins, and therapeutic uses thereof

SO U.S. Pat. Appl. Publ., 56 pp., Cont.-in-part of U. S. Ser. No. 462,941.
CODEN: USXXCO

IN Cox, George N.; Doherty, Daniel H.
AN 2003:717744 HCAPLUS

DN 139:208231

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003171284	A1	20030911	US 2002-298148	20021115
WO 9903887	A1	19990128	WO 1998-US14497	19980713
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6608183	B1	20030819	US 2000-462941	200000114
US 2005058621	A1	20050317	US 2003-685288	20031013

L25 ANSWER 19 OF 51 MEDLINE on STN DUPLICATE 12

TI Engineering Escherichia coli for increased productivity of serine-rich proteins based on proteome profiling.

SO Applied and environmental microbiology, (2003 Oct) Vol. 69, No. 10, pp. 5772-81.

Journal code: 7605801. ISSN: 0099-2240.

AU Han Mee-Jung; Jeong Ki Jun; Yoo Jong-Shin; Lee Sang Yup
AN 2003497591 MEDLINE

L25 ANSWER 20 OF 51 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Transfer of Severe Experimental Autoimmune Encephalomyelitis by IL-12- and IL-18-Potentiated T Cells Is Estrogen Sensitive

SO Journal of Immunology (2003), 170(9), 4802-4809
CODEN: JOIMA3; ISSN: 0022-1767

AU Ito, Atsushi; Matejuk, Agata; Hopke, Corwyn; Drought, Heather; Dwyer, Jami; Zamora, Alex; Subramanian, Sandhya; Vandenbark, Arthur A.; Offner, Halina

AN 2003:306481 HCAPLUS

DN 138:400242

L25 ANSWER 21 OF 51 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Cysteine protease B of leishmania mexicana inhibits host Th1 responses and protective immunity

SO Journal of Immunology (2003), 171(7), 3711-3717
CODEN: JOIMA3; ISSN: 0022-1767

AU Buxbaum, Laurence U.; Denise, Hubert; Coombs, Graham H.; Alexander, James; Mottram, Jeremy C.; Scott, Phillip

AN 2003:790878 HCAPLUS

DN 139:291086

L25 ANSWER 22 OF 51 HCAPLUS COPYRIGHT 2006 ACS on STN

TI The Leishmania mexicana Cysteine Protease, CPB2.8, Induces Potent Th2 Responses

SO Journal of Immunology (2003), 170(4), 1746-1753
CODEN: JOIMA3; ISSN: 0022-1767

AU Pollock, Kevin G. J.; McNeil, Katherine S.; Mottram, Jeremy C.; Lyons, Russell E.; Brewer, James M.; Scott, Phillip; Coombs, Graham H.; Alexander, James

AN 2003:129158 HCPLUS
DN 138:186312

L25 ANSWER 23 OF 51 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI Impairment of interleukin-12 dependent STAT4 nuclear translocation in a patient with recurrent *Mycobacterium avium* infection.
SO Blood, (November 16 2003) Vol. 102, No. 11, pp. 52b. print.
Meeting Info.: 45th Annual Meeting of the American Society of Hematology. San Diego, CA, USA. December 06-09, 2003. American Society of Hematology. CODEN: BLOOAW. ISSN: 0006-4971.
AU Toyoda, Hidemi [Reprint Author]; Ido, Masaru [Reprint Author]; Hayashi, Tatsuya; Suzuki, Koji; Kisenge, Rodrick R. [Reprint Author]; Kamiya, Hitoshi; Tanaka, Shigeki; Komada, Yoshihiro [Reprint Author]
AN 2004:167262 BIOSIS

L25 ANSWER 24 OF 51 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Use of polymerase activity inhibitors in the manufacture of a medicament useful for the treatment of viral flaviviridae infection in a host.
PI WO 2002100851 A2 20021219 (200317)* EN 159 C07D333-40

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ
NL OA PT SD SE SL SZ TR TZ UG ZM ZW
W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK
DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR
KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT
RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM
ZW

EP 1401825 A2 20040331 (200424) EN C07D333-40
R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
RO SE SI TR
CZ 2003003368 A3 20040414 (200435) C07D333-40
US 2004116509 A1 20040617 (200440) A61K031-381
BR 2002010357 A 20040629 (200444) C07D333-40
SK 2003001520 A3 20040707 (200447) C07D333-40
ZA 2003009590 A 20040630 (200448) 336 A61K000-00
AU 2002344854 A1 20021223 (200452) C07D333-40
KR 2004030671 A 20040409 (200453) C07D333-40
JP 2005500288 W 20050106 (200505) 582 C07D333-40
US 6881741 B2 20050419 (200527) A61K031-44
CN 1602308 A 20050330 (200547) C07D333-40
MX 2003011452 A1 20050301 (200568) C07D333-40

IN BEDARD, J; CHAN, C K L; DAS, S K; NGUYEN BA, N; PEREIRA, O Z; REDDY, T J; SIDDIQUI, M A; WANG, W; YANNOPOULOS, C; BA, N N; NGUYEN, B N; CHAN CHUN KONG, L; KUMAR, S

L25 ANSWER 25 OF 51 MEDLINE on STN DUPLICATE 13
TI STAT4 serine phosphorylation is critical for IL-12-induced IFN-gamma production but not for cell proliferation.
SO Proceedings of the National Academy of Sciences of the United States of America, (2002 Sep 17) Vol. 99, No. 19, pp. 12281-6. Electronic Publication: 2002-09-04.
Journal code: 7505876. ISSN: 0027-8424.
AU Morinobu Akio; Gadina Massimo; Strober Warren; Visconti Roberta; Fornace Albert; Montagna Cristina; Feldman Gerald M; Nishikomori Ryuta; O'Shea John J
AN 2002489464 MEDLINE

L25 ANSWER 26 OF 51 MEDLINE on STN DUPLICATE 14
TI Serine phosphorylation of Stat5 proteins in lymphocytes stimulated with IL-2.
SO International immunology, (2002 Nov) Vol. 14, No. 11, pp. 1263-71.
Journal code: 8916182. ISSN: 0953-8178.
AU Xue Hai-Hui; Fink Donald W Jr; Zhang Xiaolong; Qin Jun; Turck Christoph W; Leonard Warren J
AN 2002695257 MEDLINE

L25 ANSWER 27 OF 51 MEDLINE on STN DUPLICATE 15
TI Synergy of IL-12 and IL-18 for IFN-gamma gene expression: IL-12-induced STAT4 contributes to IFN-gamma promoter activation by up-regulating the binding activity of IL-18-induced activator protein 1.
SO Journal of immunology (Baltimore, Md. : 1950), (2002 Feb 1) Vol. 168, No. 3, pp. 1146-53.
Journal code: 2985117R. ISSN: 0022-1767.
AU Nakahira Masakiyo; Ahn Hyun-Jong; Park Woong-Ryeon; Gao Ping; Tomura Michio; Park Cheung-Seog; Hamaoka Toshiyuki; Ohta Tsunetaka; Kurimoto Masashi; Fujiwara Hiromi
AN 2002075945 MEDLINE

L25 ANSWER 28 OF 51 MEDLINE on STN DUPLICATE 16
TI Thiol antioxidants inhibit the formation of the interleukin-12 heterodimer: a novel mechanism for the inhibition of IL-12 production.
SO Cytokine, (2002 Mar 21) Vol. 17, No. 6, pp. 285-93.
Journal code: 9005353. ISSN: 1043-4666.
AU Mazzeo Daniela; Sacco Silvano; Di Lucia Pietro; Penna Giuseppe; Adorini Luciano; Panina-Bordignon Paola; Ghezzi Pietro
AN 2002319831 MEDLINE

L25 ANSWER 29 OF 51 MEDLINE on STN DUPLICATE 17
TI Hydrolysis of interleukin-12 by *Porphyromonas gingivalis* major cysteine proteinases may affect local gamma interferon accumulation and the Th1 or Th2 T-cell phenotype in periodontitis.
SO Infection and immunity, (2001 Sep) Vol. 69, No. 9, pp. 5650-60.
Journal code: 0246127. ISSN: 0019-9567.
AU Yun P L; Decarlo A A; Collyer C; Hunter N
AN 2001454855 MEDLINE

L25 ANSWER 30 OF 51 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Modulation of human T cell responses and macrophage functions by onchocystatin, a secreted protein of the filarial nematode *Onchocerca volvulus*
SO Journal of Immunology (2001), 167(6), 3207-3215
CODEN: JOIMA3; ISSN: 0022-1767
AU Schonemeyer, Annett; Lucius, Richard; Sonnenburg, Bettina; Brattig, Norbert; Sabat, Robert; Schilling, Klaus; Bradley, Janette; Hartmann, Susanne
AN 2001:695161 HCAPLUS
DN 135:370584

L25 ANSWER 31 OF 51 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI STAT4 serine phosphorylation is critical for IL-12 induced IFN-gamma production and Th1 differentiation.
SO ARTHRITIS AND RHEUMATISM, (SEP 2001) Vol. 44, No. 9, Supp. [S], pp. S377-S377. MA 1944.
ISSN: 0004-3591.
AU Morinobu A (Reprint); Gadina M; Visconti R; Feldman G M; Nishikomori R; Strober W; O'Shea J J
AN 2002:105188 SCISEARCH

L25 ANSWER 32 OF 51 MEDLINE on STN DUPLICATE 18
TI Importance of the MKK6/p38 pathway for interleukin-12-induced STAT4 serine phosphorylation and transcriptional activity.
SO Blood, (2000 Sep 1) Vol. 96, No. 5, pp. 1844-52.
Journal code: 7603509. ISSN: 0006-4971.
AU Visconti R; Gadina M; Chiariello M; Chen E H; Stancato L F; Gutkind J S; O'Shea J J
AN 2000492569 MEDLINE

L25 ANSWER 33 OF 51 MEDLINE on STN DUPLICATE 19
TI IL-12 selectively regulates STAT4 via phosphatidylinositol 3-kinase and Ras-independent signal transduction pathways.
SO European journal of immunology, (2000 May) Vol. 30, No. 5, pp. 1425-34.
Journal code: 1273201. ISSN: 0014-2980.
AU Athie-M V; Flotow H; Hilyard K L; Cantrell D A
AN 2000281489 MEDLINE

L25 ANSWER 34 OF 51 MEDLINE on STN DUPLICATE 20
TI Differential effects of N-acetyl-l-cysteine on IL-2- vs IL-12-driven proliferation of a T cell clone: implications for distinct signalling pathways.
SO Cytokine, (2000 Sep) Vol. 12, No. 9, pp. 1419-22.
Journal code: 9005353. ISSN: 1043-4666.
AU Park C S; Park W R; Sugimoto N; Nakahira M; Ahn H J; Hamaoka T; Ohta T; Kurimoto M; Fujiwara H
AN 2001032642 MEDLINE

L25 ANSWER 35 OF 51 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 21
TI Importance of the MKK6-p38 pathway for IL-12-induced Stat4 serine phosphorylation and transcriptional activity
SO FASEB JOURNAL, (20 APR 2000) Vol. 14, No. 6, Supp. [S], pp. A1084-A1084.
ISSN: 0892-6638.
AU Visconti R (Reprint); Gadina M; Chiariello M; Chen E H; Stancato L F; Gutkind J S; O'Shea J J
AN 2000:488468 SCISEARCH

L25 ANSWER 36 OF 51 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Immunological analysis of reduced glutathione, L-cysteine and anthocyan effects in Chernobyl children with recurrent respiratory infections and chronic inflammatory focal lesions
SO Central European Journal of Immunology (2000), 25(3), 137-145
CODEN: CJIMFW; ISSN: 1426-3912
AU Chernyshov, Viktor P.; Omelchenko, Lyudmila I.; Treusch, Gernot; Vodyanik, Maxim A.; Pochinok, Tatyana V.; Gumenyuk, Marina V.; Zelinsky, Gennady M.
AN 2001:132538 HCAPLUS
DN 135:207514

L25 ANSWER 37 OF 51 MEDLINE on STN DUPLICATE 22
TI The functional synergy between IL-12 and IL-2 involves p38 mitogen-activated protein kinase and is associated with the augmentation of STAT serine phosphorylation.
SO Journal of immunology (Baltimore, Md. : 1950), (1999 Apr 15) Vol. 162, No. 8, pp. 4472-81.
Journal code: 2985117R. ISSN: 0022-1767.
AU Gollob J A; Schnipper C P; Murphy E A; Ritz J; Frank D A
AN 1999218482 MEDLINE

L25 ANSWER 38 OF 51 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN DUPLICATE
AN 1999209559 ESBIOBASE
TI Mutated ras p21 as a target for cancer therapy in mouse transitional cell carcinoma
AU Luo Y.; Chen X.; Han R.; Chorev M.; Dewolf W.C.; O'Donnell M.A.
CS M.A. O'Donnell, Division of Urology, Beth Israel Deaconess Medical Center, East Campus, 330 Brookline Ave., Boston, MA 02215, United States.
SO Journal of Urology, (1999), 162/4 (1519-1526), 40 reference(s)
CODEN: JOURAA ISSN: 0022-5347
DT Journal; Article
CY United States
LA English
SL English

L25 ANSWER 39 OF 51 MEDLINE on STN DUPLICATE 24

TI Expression of SCM-1alpha/lymphotactin and SCM-1beta in natural killer cells is upregulated by IL-2 and IL-12.
SO DNA and cell biology, (1999 Jul) Vol. 18, No. 7, pp. 565-71.
Journal code: 9004522. ISSN: 1044-5498.
AU Hennemann B; Tam Y K; Tonn T; Klingemann H G
AN 1999360937 MEDLINE

L25 ANSWER 40 OF 51 MEDLINE on STN DUPLICATE 25
TI Interleukin-12 augments cytolytic activity of peripheral and decidual lymphocytes against choriocarcinoma cell lines and primary culture human placental trophoblasts.
SO American journal of reproductive immunology (New York, N.Y. : 1989), (1999 May) Vol. 41, No. 5, pp. 320-9.
Journal code: 8912860. ISSN: 1046-7408.
AU Hayakawa S; Nagai N; Kanaeda T; Karasaki-Suzuki M; Ishii M; Chishima F; Satoh K
AN 1999305790 MEDLINE

L25 ANSWER 41 OF 51 MEDLINE on STN DUPLICATE 26
TI Chloromethyl ketones inhibit interleukin-12 production in mouse macrophages stimulated with lipopolysaccharide.
SO Immunology letters, (1999 Nov 1) Vol. 70, No. 2, pp. 135-8.
Journal code: 7910006. ISSN: 0165-2478.
AU Kang B Y; Chung S W; Im S Y; Hwang S Y; Kim T S
AN 2000034991 MEDLINE

L25 ANSWER 42 OF 51 MEDLINE on STN DUPLICATE 27
TI Down-regulation of IL-12, not a shift from a T helper-1 to a T helper-2 phenotype, is responsible for impaired IFN-gamma production in mammary tumor-bearing mice.
SO Journal of immunology (Baltimore, Md. : 1950), (1997 Jan 1) Vol. 158, No. 1, pp. 280-6.
Journal code: 2985117R. ISSN: 0022-1767.
AU Handel-Fernandez M E; Cheng X; Herbert L M; Lopez D M
AN 97131699 MEDLINE

L25 ANSWER 43 OF 51 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI Increased blood concentrations of interleukin-12 are associated with a longer survival in untreatable metastatic solid tumor patients: preliminary observations
SO INTERNATIONAL JOURNAL OF BIOLOGICAL MARKERS, (JUL-SEP 1997) Vol. 12, No. 3, pp. 125-127.
ISSN: 0393-6155.
AU Lissoni P (Reprint); Rovelli F; Fumagalli L; Mauri E; Barni S; Tancini G
AN 1998:106386 SCISEARCH

L25 ANSWER 44 OF 51 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 28
TI Bioactive murine and human interleukin-12 fusion proteins which retain antitumor activity in vivo
SO NATURE BIOTECHNOLOGY, (JAN 1997) Vol. 15, No. 1, pp. 35-40.
ISSN: 1087-0156.
AU Lieschke G J (Reprint); Rao P K; Gately M K; Mulligan R C
AN 1997:37223 SCISEARCH

L25 ANSWER 45 OF 51 MEDLINE on STN DUPLICATE 29
TI Activation of STAT4 by IL-12 and IFN-alpha: evidence for the involvement of ligand-induced tyrosine and serine phosphorylation.
SO Journal of immunology (Baltimore, Md. : 1950), (1996 Dec 1) Vol. 157, No. 11, pp. 4781-9.
Journal code: 2985117R. ISSN: 0022-1767.
AU Cho S S; Bacon C M; Sudarshan C; Rees R C; Finbloom D; Pine R; O'Shea J J
AN 97098702 MEDLINE

L25 ANSWER 46 OF 51 LIFESCI COPYRIGHT 2006 CSA on STN DUPLICATE 30
TI Definition of a natural killer NKR-P1A super(+)/CD56 super(-)/CD16
super(-) functionally immature human NK cell subset that differentiates in
vitro in the presence of interleukin 12
SO J. EXP. MED., (1996) vol. 184, no. 5, pp. 1845-1856.
ISSN: 0022-1007.
AU Bennett, I.M.; Zatsepina, O.; Zamai, L.; Azzoni, L.; Mikheeva, T.;
Perussia, B.*
AN 97:58236 LIFESCI

L25 ANSWER 47 OF 51 MEDLINE on STN DUPLICATE 31
TI Differential utilization of Janus kinase-signal transducer activator of
transcription signaling pathways in the stimulation of human natural
killer cells by IL-2, IL-12, and IFN-alpha.
SO Journal of immunology (Baltimore, Md. : 1950), (1996 Jul 1) Vol. 157, No.
1, pp. 126-37.
Journal code: 2985117R. ISSN: 0022-1767.
AU Yu C R; Lin J X; Fink D W; Akira S; Bloom E T; Yamauchi A
AN 96264681 MEDLINE

L25 ANSWER 48 OF 51 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Regulation of gene expression and nitric oxide production in murine
macrophages by the serine/threonine phosphatase inhibitor okadaic acid
SO Journal of Endotoxin Research (1996), 3(1), 19-27
CODEN: JENREB; ISSN: 0968-0519
AU Barber, S.A.; Salkowski, C.A.; Fultz, M.J.; Perera, P.-Y.; McNally, R.;
Vogel, S. N.
AN 1996:291091 HCAPLUS
DN 124:340545

L25 ANSWER 49 OF 51 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on
STN DUPLICATE 32
TI IL-12 AND IL-2 SYNERGIZE TO INCREASE PERFORIN AND
SERINE ESTERASE GENE-TRANSCRIPTION BY FRESH HUMAN NK CELLS
SO FASEB JOURNAL, (MAR 1994) Vol. 8, No. 4, pp. A512-A512.
ISSN: 0892-6638.
AU HOHE D F (Reprint); BLOOM E T
AN 1994:182385 SCISEARCH

L25 ANSWER 50 OF 51 LIFESCI COPYRIGHT 2006 CSA on STN DUPLICATE 33
TI Cooperation of natural killer cell stimulatory factor/interleukin-12 with
other stimuli in the induction of cytokines and cytotoxic cell-associated
molecules in human T and NK cells
SO CELL. IMMUNOL., (1994) vol. 156, no. 2, pp. 480-492.
ISSN: 0008-8749.
AU Aste-Amezaga, M.; D'Andrea, A.; Kubin, M.; Trinchieri, G.*
AN 95:39903 LIFESCI

L25 ANSWER 51 OF 51 MEDLINE on STN DUPLICATE 34
TI Cellular and molecular mechanisms of activation of MHC nonrestricted
cytotoxic cells by IL-12.
SO Journal of immunology (Baltimore, Md. : 1950), (1993 Sep 15) Vol. 151, No.
6, pp. 2943-57.
Journal code: 2985117R. ISSN: 0022-1767.
AU Cesano A; Visonneau S; Clark S C; Santoli D
AN 93389123 MEDLINE

=> s 112 and ((serine or cysteine or cys or ser) (8a) (rich or level) or (amino
acid) (2a) composition)

FILE 'MEDLINE'

89427 SERINE
64935 CYSTEINE
13011 CYS
21267 SER

82454 RICH
704944 LEVEL
6704 (SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
612387 AMINO
1388293 ACID
459270 AMINO ACID
 (AMINO(W)ACID)
155172 COMPOSITION
9724 (AMINO ACID) (2A) COMPOSITION
L26 8 L1 AND ((SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
 OR (AMINO ACID) (2A) COMPOSITION)

FILE 'SCISEARCH'
51760 SERINE
47434 CYSTEINE
13341 CYS
21683 SER
151346 RICH
789767 LEVEL
6717 (SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
385550 AMINO
1114189 ACID
204369 AMINO ACID
 (AMINO(W)ACID)
364673 COMPOSITION
6405 (AMINO ACID) (2A) COMPOSITION
L27 11 L2 AND ((SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
 OR (AMINO ACID) (2A) COMPOSITION)

FILE 'LIFESCI'
21346 SERINE
18083 CYSTEINE
6246 CYS
10414 SER
34806 RICH
185647 LEVEL
3465 (SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
166826 "AMINO"
297172 "ACID"
115086 AMINO ACID
 ("AMINO" (W) "ACID")
93111 COMPOSITION
4454 (AMINO ACID) (2A) COMPOSITION
L28 5 L3 AND ((SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
 OR (AMINO ACID) (2A) COMPOSITION)

FILE 'BIOTECHDS'
4804 SERINE
4207 CYSTEINE
2696 CYS
4610 SER
4503 RICH
29471 LEVEL
420 (SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
66130 AMINO
135918 ACID
47397 AMINO ACID
 (AMINO(W)ACID)
35551 COMPOSITION
805 (AMINO ACID) (2A) COMPOSITION
L29 10 L4 AND ((SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
 OR (AMINO ACID) (2A) COMPOSITION)

FILE 'BIOSIS'
68149 SERINE

59077 CYSTEINE
14000 CYS
22012 SER
105895 RICH
787952 LEVEL
7379 (SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
521001 AMINO
1241250 ACID
303253 AMINO ACID
(AMINO(W) ACID)
293000 COMPOSITION
16411 (AMINO ACID) (2A) COMPOSITION
L30 11 L5 AND ((SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
OR (AMINO ACID) (2A) COMPOSITION)

FILE 'EMBASE'
56880 SERINE
49498 CYSTEINE
11600 CYS
18933 SER
74340 RICH
1125574 LEVEL
5907 (SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
422113 "AMINO"
1370952 "ACID"
285609 AMINO ACID
("AMINO" (W) "ACID")
140610 COMPOSITION
10364 (AMINO ACID) (2A) COMPOSITION
L31 12 L6 AND ((SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
OR (AMINO ACID) (2A) COMPOSITION)

FILE 'HCAPLUS'
105667 SERINE
100080 CYSTEINE
19777 CYS
34635 SER
275352 RICH
1299913 LEVEL
8822 (SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
1061444 AMINO
4114351 ACID
526886 AMINO ACID
(AMINO(W) ACID)
649360 COMPOSITION
1385564 COMPN
1781963 COMPOSITION
(COMPOSITION OR COMPN)
28940 (AMINO ACID) (2A) COMPOSITION
L32 25 L7 AND ((SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
OR (AMINO ACID) (2A) COMPOSITION)

FILE 'NTIS'
523 SERINE
490 CYSTEINE
70 CYS
403 SER
9239 RICH
145716 LEVEL
44 (SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
6963 AMINO
43887 ACID
2458 AMINO ACID
(AMINO(W) ACID)
62890 COMPOSITION

L33 167 (AMINO ACID) (2A) COMPOSITION
0 L8 AND ((SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
OR (AMINO ACID) (2A) COMPOSITION)

FILE 'ESBIOBASE'
27004 SERINE
23797 CYSTEINE
8427 CYS
12446 SER
45250 RICH
257772 LEVEL
4411 (SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
177810 AMINO
337183 ACID
99094 AMINO ACID
(AMINO(W)ACID)
78871 COMPOSITION
2056 (AMINO ACID) (2A) COMPOSITION
L34 7 L9 AND ((SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
OR (AMINO ACID) (2A) COMPOSITION)

FILE 'BIOTECHNO'
28989 SERINE
22339 CYSTEINE
7657 CYS
11924 SER
29372 RICH
204610 LEVEL
4230 (SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
204625 AMINO
349810 ACID
154660 AMINO ACID
(AMINO(W)ACID)
36875 COMPOSITION
5058 (AMINO ACID) (2A) COMPOSITION
L35 6 L10 AND ((SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
OR (AMINO ACID) (2A) COMPOSITION)

FILE 'WPIDS'
8319 SERINE
8451 CYSTEINE
5099 CYS
9774 SER
33926 RICH
546587 LEVEL
367 (SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
244872 AMINO
939123 ACID
68924 AMINO ACID
(AMINO(W)ACID)
687202 COMPOSITION
8956 COMPN
388439 COMPSN
833907 COMPOSITION
(COMPOSITION OR COMPN OR COMPSN)
1022 (AMINO ACID) (2A) COMPOSITION
L36 12 L11 AND ((SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
OR (AMINO ACID) (2A) COMPOSITION)

TOTAL FOR ALL FILES
L37 107 L12 AND ((SERINE OR CYSTEINE OR CYS OR SER) (8A) (RICH OR LEVEL)
OR (AMINO ACID) (2A) COMPOSITION)

=> dup rem 137
PROCESSING COMPLETED FOR L37

L38

43 DUP REM L37 (64 DUPLICATES REMOVED)

=> d tot

L38 ANSWER 1 OF 43 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI New stem cell comprising a self-replicating artificial chromosome
comprising a neocentromere having centromeric chromatin domains, useful
for tissue repair, replacement, rejuvenation and/or augmentation therapy;
self-replicating artificial chromosome-containing stem cell for cell
therapy and gene therapy
AU CHOO K A; WONG L H; SAFFERY R E
AN 2005-16023 BIOTECHDS
PI WO 2005040391 6 May 2005

L38 ANSWER 2 OF 43 HCAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 2
TI Methods of using databases to create gene-expression microarrays, equine
and canine microarrays created thereby, and uses of the microarrays
SO PCT Int. Appl., 1475 pp.
CODEN: PIXXD2
IN Bertone, Alicia; Gu, Weisong
AN 2005:713955 HCAPLUS
DN 143:187909

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2005067649	A2	20050728	WO 2005-XA517	20050107
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
WO 2005067649	A2	20050728	WO 2005-US517	20050107
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

L38 ANSWER 3 OF 43 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Diagnosis and prevention of hyperinsulinemia and type II diabetes using
patterns of gene expression in muscle cells
SO PCT Int. Appl., 300 pp.
CODEN: PIXXD2
IN Kopchick, John J.; Coschigano, Karen T.; Boyce, Keith S.; Kriete, Andres
AN 2005:984043 HCAPLUS
DN 143:284109

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2005082398	A2	20050909	WO 2005-US5596	20050224
WO 2005082398	A3	20060126		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				

NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM,
 SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
 EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
 RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
 MR, NE, SN, TD, TG

L38 ANSWER 4 OF 43 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Combination composition comprising an antagonist of tissue factor (TF) and
 an anticancer compound for treating disorders related to TF dysfunction

SO PCT Int. Appl., 58 pp.
 CODEN: PIXXD2

IN Mueller, Jorn Roland
 AN 2005:962021 HCAPLUS

DN 143:272421

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2005079766	A2	20050901	WO 2005-DK98	20050214
WO 2005079766	A3	20051013		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

L38 ANSWER 5 OF 43 HCAPLUS COPYRIGHT 2006 ACS on STN

TI The curcuminoids- and anthocyanins-responsive genes in human adipocytes
 and their use in screenings of anti-obesity and anti-diabetes drugs

SO Jpn. Kokai Tokkyo Koho, 85 pp.

CODEN: JKXXAF

IN Ueno, Yuki; Tsuda, Takanori; Takanori, Hitoshi; Yoshikawa, Toshikazu;
 Osawa, Toshihiko

AN 2005:671727 HCAPLUS

DN 143:166667

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2005198640	A2	20050728	JP 2004-53258	20040227

L38 ANSWER 6 OF 43 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

TI New amyloid Beta peptide that elicits a T-cell response, useful in
 preparing a composition for diagnosing or treating amyloid fibril
 disorders.

PI WO 2005012330 A2 20050210 (200517)* EN 80 C07K000-00

RW: AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE
 LS LU MC MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW
 W: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE
 DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG
 KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ
 OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG
 US UZ VC VN YU ZA ZM ZW

US 2005123553 A1 20050609 (200538) G01N033-53

IN MONSONEGO, A; SELKOE, D J; WEINER, H

L38 ANSWER 7 OF 43 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

TI New dual chain synthetic heparin-binding growth factor analog, useful for
 preventing or treating mucositis, gastrointestinal syndrome, or
 radionecrosis.

PI US 2005222394 A1 20051006 (200568)* 30 A61K038-18

IN LIN, X; PENA, L A; ZAMORA, P O

L38 ANSWER 8 OF 43 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN

TI The keratan sulfate disaccharide gal(6S03) beta 1,4-GlcNAc(6S03) modulates interleukin 12 production by macrophages in murine Thy-1 type autoimmune disease

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (27 MAY 2005) Vol. 280, No. 21, pp. 20879-20886.
ISSN: 0021-9258.

AU Xu H P; Kurihara H; Ito T; Kikuchi H; Yoshida K; Yamanokuchi H; Asari A (Reprint)

AN 2005:568005 SCISEARCH

L38 ANSWER 9 OF 43 MEDLINE on STN DUPLICATE 3

TI Isolation and characterization of a novel immunomodulatory alpha-glucan-protein complex from the mycelium of Tricholoma matsutake in basidiomycetes.

SO Journal of agricultural and food chemistry, (2005 Nov 16) Vol. 53, No. 23, pp. 8948-56.
Journal code: 0374755. ISSN: 0021-8561.

AU Hoshi Hirotaka; Yagi Yoko; Iijima Hiroko; Matsunaga Kenichi; Ishihara Yoko; Yasuhara Tadashi

AN 2005624490 MEDLINE

L38 ANSWER 10 OF 43 MEDLINE on STN DUPLICATE 4

TI Characterization of the Helicobacter pylori cysteine-rich protein A as a T-helper cell type 1 polarizing agent.

SO Infection and immunity, (2005 Aug) Vol. 73, No. 8, pp. 4732-42.
Journal code: 0246127. ISSN: 0019-9567.

AU Deml Ludwig; Aigner Michael; Decker Jochen; Eckhardt Alexander; Schutz Christian; Mittl Peer R E; Barabas Sascha; Denk Stefanie; Knoll Gertrud; Lehn Norbert; Schneider-Brachert Wulf

AN 2005382330 MEDLINE

L38 ANSWER 11 OF 43 MEDLINE on STN DUPLICATE 5

TI Gammadelta T cell function varies with the expressed WC1 coreceptor.

SO Journal of immunology (Baltimore, Md. : 1950), (2005 Mar 15) Vol. 174, No. 6, pp. 3386-93.
Journal code: 2985117R. ISSN: 0022-1767.

AU Rogers Aric N; Vanburen Denille G; Hedblom Emmett E; Tilahun Mulualem E; Telfer Janice C; Baldwin Cynthia L

AN 2005119286 MEDLINE

L38 ANSWER 12 OF 43 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 6

TI Cytokine induction by the hepatitis B virus capsid in macrophages is facilitated by membrane heparan sulfate and involves TLR2.

SO Journal of Immunology, (SEP 1 2005) Vol. 175, No. 5, pp. 3165-3176.
CODEN: JOIMA3. ISSN: 0022-1767.

AU Cooper, Arik; Tal, Guy; Lider, Ofer; Shaul, Yosef [Reprint Author]

AN 2006:4557 BIOSIS

L38 ANSWER 13 OF 43 MEDLINE on STN DUPLICATE 7

TI Function of ruminant gammadelta T cells is defined by WC1.1 or WC1.2 isoform expression.

SO Veterinary immunology and immunopathology, (2005 Oct 18) Vol. 108, No. 1-2, pp. 211-7.
Journal code: 8002006. ISSN: 0165-2427.

AU Rogers Aric N; VanBuren Denille G; Hedblom Emmett; Tilahun Mulualem E; Telfer Janice C; Baldwin Cynthia L

AN 2005498688 MEDLINE

L38 ANSWER 14 OF 43 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN

TI New chimeric protein comprising zinc finger domains and a heterologous

protein transduction domain, useful in preparing a composition for treating a subject having or being suspected of having neoplastic or inflammatory disorder;
a pharmaceutical composition comprising a chimeric DNA binding protein useful for alteration of expression of vascular endothelial cell growth factor

AU KIM J; SHIN H; KWON H
AN 2005-02687 BIOTECHDS
PI WO 2004108883 16 Dec 2004

L38 ANSWER 15 OF 43 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI New isolated, recombinant or non-naturally occurring polypeptide, useful in detecting or inducing an immune response against human EpCAM for treating cancer;
involving vector-mediated gene transfer and expression in host cell for gene therapy

AU PUNNONEN J; APT D; NEIGHBORS M; LEONG S R
AN 2004-26516 BIOTECHDS
PI WO 2004093808 4 Nov 2004

L38 ANSWER 16 OF 43 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI New nucleic acid encoding canine receptor activator of NF-KB ligand (RANKL), useful in preparing a vaccine for down-regulating RANKL activity in an mammal for treating or preventing e.g., osteoporosis;
involving vector-mediated gene transfer and expression in host cell for use in therapy

AU MATTSON J D; MCCLANAHAN T
AN 2004-17409 BIOTECHDS
PI WO 2004052233 24 Jun 2004

L38 ANSWER 17 OF 43 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Composition useful for treating tumors, e.g. melanoma, glioma, meningioma, or neuroblastoma, comprises a fusion polypeptide, a nucleic acid molecule encoding a fusion polypeptide or an antigen bearing target;
involving vector-mediated gene transfer and expression in prokaryotic, eukaryotic, yeast, mammal and insect host cell for cancer vaccine and gene therapy

AU SEGAL A H; YOUNG E
AN 2004-10480 BIOTECHDS
PI WO 2004018698 4 Mar 2004

L38 ANSWER 18 OF 43 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Preparing a *serine-rich* foreign protein (e.g. leptin)
comprises culturing *Escherichia coli* containing a cysteine synthase gene and a gene encoding the foreign protein in a culture medium, and harvesting the foreign protein;
vector-mediated cysteine-synthase gene transfer and expression in host cell for recombinant protein production

AU LEE S Y; HAN M
AN 2004-20892 BIOTECHDS
PI US 2004157290 12 Aug 2004

L38 ANSWER 19 OF 43 HCAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 13
TI Analysis of genetic information contained in peripheral blood for diagnosis, prognosis and monitoring treatment of allergy, infection and genetic disease in human

SO U.S. Pat. Appl. Publ., 155 pp., Cont.-in-part of U.S. Ser. No. 802,875.
CODEN: USXXCO

IN Liew, Choong-Chin
AN 2005:139369 HCAPLUS

DN 142:175392

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004241726	A1	20041202	US 2004-812707	20040330
US 2004014059	A1	20040122	US 2002-268730	20021009

US 2005191637	A1	20050901	US 2004-803737	20040318
US 2005196762	A1	20050908	US 2004-803759	20040318
US 2005196763	A1	20050908	US 2004-803857	20040318
US 2005196764	A1	20050908	US 2004-803858	20040318
US 2005208505	A1	20050922	US 2004-803648	20040318
US 2004241726	A1	20041202	US 2004-812707	20040330

L38 ANSWER 20 OF 43 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI DNA microarray analysis of gene expression in the diagnosis of estrogen receptor positive- and negative-breast cancer
 SO PCT Int. Appl., 226 pp.
 CODEN: PIXXD2

IN Erlander, Mark G.; Ma, Xiao-Jun; Wang, Wei; Wittliff, James L.
 AN 2004:838610 HCAPLUS
 DN 141:312238

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2004079014	A2	20040916	WO 2002-XA2004006736	20040304
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, YU, ZA, ZM, ZW			
	RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
WO 2004079014	A2	20040916	WO 2004-US6736	20040304
WO 2004079014	A3	20050331		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

L38 ANSWER 21 OF 43 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI New composition, useful preparing a pharmaceutical composition or a reagent for the diagnosis of tuberculosis.
 PI WO 2004099771 A1 20041118 (200481)* EN 65 G01N033-50
 RW: AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW
 W: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

IN ANDERSEN, P; BROCK, I; WELDINGH, K

L38 ANSWER 22 OF 43 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Dysfunction of macrophages in metallothionein-knock out mice
 SO Journal of UOEH (2004), 26(2), 193-205
 CODEN: JOUOD4; ISSN: 0387-821X
 AU Sugiura, Tsutomu; Kuroda, Etsushi; Yamashita, Uki
 AN 2004:672907 HCAPLUS
 DN 141:348732

L38 ANSWER 23 OF 43 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN
 TI From pattern recognition receptor to regulator of homeostasis: The double-faced macrophage mannose receptor

SO CRITICAL REVIEWS IN IMMUNOLOGY, (2004) Vol. 24, No. 3, pp. 179-192.
ISSN: 1040-8401.

AU Allavena P (Reprint); Chieppa M; Monti P; Piemonti L
AN 2004:955603 SCISEARCH

L38 ANSWER 24 OF 43 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Composition comprising fragments from interleukin (IL)-12 p40 and IL-B30 polypeptides is useful to enhance anti-viral, anti-tumor and vaccine effects and to antagonize allergic responses; for use in cancer, virus infection, allergy, autoimmune disease, multiple sclerosis, psoriasis, chronic inflammatory, rheumatoid arthritis and inflammatory bowel disease therapy

AU OPPMANN B; DE WAAL MALEYFT R; RENNICK D M; KASTELEIN R A; WIEKOWSKI M T; LIRA S A; NARULA S K
AN 2004-03959 BIOTECHDS
PI US 2003162261 28 Aug 2003

L38 ANSWER 25 OF 43 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Composition comprising peptide derivative of human protamine 2 conjugated to a hydrophobic group, and mixture comprising the conjugate and nucleic acid, useful for transfecting mammalian cells; vector-mediated gene transfer and expression in host cell for gene therapy

AU MAHATO R I; MAHESHWARI A; KIM S W
AN 2003-10968 BIOTECHDS
PI WO 2003004685 16 Jan 2003

L38 ANSWER 26 OF 43 MEDLINE on STN DUPLICATE 15
TI Engineering Escherichia coli for increased productivity of serine-rich proteins based on proteome profiling.

SO Applied and environmental microbiology, (2003 Oct) Vol. 69, No. 10, pp. 5772-81.
Journal code: 7605801. ISSN: 0099-2240.

AU Han Mee-Jung; Jeong Ki Jun; Yoo Jong-Shin; Lee Sang Yup
AN 2003497591 MEDLINE

L38 ANSWER 27 OF 43 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI Cross-linking of the mannose receptor on monocyte-derived dendritic cells activates an anti-inflammatory immunosuppressive program

SO JOURNAL OF IMMUNOLOGY, (1 NOV 2003) Vol. 171, No. 9, pp. 4552-4560.
ISSN: 0022-1767.

AU Chieppa M; Bianchi G; Doni A; Del Prete A; Sironi M; Laskarin G; Monti P; Piemonti L; Biondi A; Mantovani A; Introna M; Allavena P (Reprint)
AN 2003:940733 SCISEARCH

L38 ANSWER 28 OF 43 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights reserved on STN
TI OM197-MP-AC induces the maturation of human dendritic cells and promotes a primary T cell response.

SO International Immunopharmacology, (2003) Vol. 3, No. 3, pp. 417-425. .
Refs: 19
ISSN: 1567-5769 CODEN: IINMBA

AU Byl B.; Libin M.; Bauer J.; Martin O.R.; De Wit D.; Davies G.; Goldman M.; Willems F.
AN 2003106238 EMBASE

L38 ANSWER 29 OF 43 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights reserved on STN DUPLICATE 16
TI Structure and characterization of hamster IL-12 p35 and p40.

SO Molecular Immunology, (2003) Vol. 40, No. 6, pp. 319-326. .
Refs: 25
ISSN: 0161-5890 CODEN: IMCHAZ

AU Maruyama K.; Takigawa Y.; Akiyama Y.; Hojo T.; Nara-Ashizawa N.; Cheng

AN J.-Y.; Watanabe M.; Yamaguchi K.
2003391994 EMBASE

L38 ANSWER 30 OF 43 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights reserved on STN DUPLICATE 17

TI Molecular modeling of a Leishmania antigen eIF-4A: Identification of a potential epitope implicated in the adjuvant effect.

SO Journal of Biomolecular Structure and Dynamics, (2003) Vol. 21, No. 1, pp. 43-53.

Refs: 31

ISSN: 0739-1102 CODEN: JBSDD6

AU Hamza A.; Kebaier C.; Vasilescu D.; Guizani I.; Dellagi K.; Sarma M.H.; Sarma R.H.

AN 2003333372 EMBASE

L38 ANSWER 31 OF 43 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN

TI Novel antibody or its portion which specifically binds to two tumor necrosis factor receptor-related protein splice variants, TR11SV1 and TR11SV2, useful for treating autoimmune hemolytic anemia, and Goodpasture's syndrome;
vector-mediated gene transfer and expression in host cell for recombinant protein production and gene therapy

AU NI J; RUBEN S M

AN 2003-02546 BIOTECHDS

PI US 2002098525 25 Jul 2002

L38 ANSWER 32 OF 43 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

TI Treating or preventing disease or condition e.g. cancer, with angiogenic component comprises administering liposome encapsulated chemotherapeutic agent.

PI WO 2002089772 A1 20021114 (200306)* EN 47 A61K009-127
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ
NL OA PT SD SE SL SZ TR TZ UG ZM ZW
W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK
DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR
KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT
RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM
ZW
US 2003082228 A1 20030501 (200331) A61K009-127
AU 2002256504 A1 20021118 (200452) A61K009-127

IN BURGE, C T R; FLOWERS, C; HASRASYM, T O; SALTMAN, D; TAM, P M S; HARASYM, T O

L38 ANSWER 33 OF 43 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

TI Feline interleukin 18 (IL-18), feline caspase-1, feline IL-12 single chain and canine IL-12 single chain proteins, useful for treating and preventing autoimmune diseases, inflammatory diseases and/or graft rejection in animals.

PI US 2002052030 A1 20020502 (200261)* 106 C12N009-00
US 6818444 B2 20041116 (200475) C12N015-00

IN BOROUGH, K L; WONDERLING, R S

L38 ANSWER 34 OF 43 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

TI The biological function of Helicobacter cystein-rich protein A (HcpA) is IL-12 dependent and located at the carboxyterminus.

SO Gut, (September, 2002) Vol. 51, No. Supplement 2, pp. A21-A22. print.
Meeting Info.: XVth International Workshop on Gastrointestinal Pathology and Helicobacter. Athens, Greece. September 11-14, 2002.
CODEN: GUTTAK. ISSN: 0017-5749.

AU Aigner, M. [Reprint author]; Decker, J. [Reprint author]; Deml, L. [Reprint author]; Knoll, G. [Reprint author]; Lehn, N. [Reprint author]; Schneider-Brachert, W. [Reprint author]

AN 2002:586406 BIOSIS

L38 ANSWER 35 OF 43 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Pharmaceutical composition for treating and preventing human tumors, which express the tumor antigen mucin and/or the carcinoembryonic antigen (CEA), and the use thereof
 SO PCT Int. Appl., 11 pp.
 CODEN: PIXXD2
 IN Pecher, Gabriele
 AN 2001:265281 HCAPLUS
 DN 134:300757
 PATENT NO. KIND DATE APPLICATION NO. DATE

 PI WO 2001024832 A2 20010412 WO 2000-DE3443 20000926
 WO 2001024832 A3 20020418
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 DE 10048710 A1 20011004 DE 2000-10048710 20000926
 EP 1409534 A2 20040421 EP 2000-982945 20000926
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY

L38 ANSWER 36 OF 43 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 18
 TI Oral supplementation with whey proteins increases plasma glutathione levels of HIV-infected patients.
 SO European Journal of Clinical Investigation, (February, 2001) Vol. 31, No. 2, pp. 171-178. print.
 CODEN: EJCIB8. ISSN: 0014-2972.
 AU Micke, P. [Reprint author]; Beeh, K. M.; Schlaak, J. F.; Buhl, R.
 AN 2001:177981 BIOSIS

L38 ANSWER 37 OF 43 MEDLINE on STN DUPLICATE 19
 TI A subunit vaccine candidate region of the Entamoeba histolytica galactose-adherence lectin promotes interleukin-12 gene transcription and protein production in human macrophages.
 SO European journal of immunology, (2000 Feb) Vol. 30, No. 2, pp. 423-30. Journal code: 1273201. ISSN: 0014-2980.
 AU Campbell D; Mann B J; Chadee K
 AN 2000135844 MEDLINE

L38 ANSWER 38 OF 43 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Gene probes used for genetic profiling in healthcare screening and planning
 SO PCT Int. Appl., 745 pp.
 CODEN: PIXXD2

IN Roberts, Gareth Wyn
 AN 1999:795994 HCAPLUS
 DN 132:31744
 PATENT NO. KIND DATE APPLICATION NO. DATE

 PI WO 9964627 A2 19991216 WO 1999-GB1780 19990604
 W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,

CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

L38 ANSWER 39 OF 43 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Gene probes used for genetic profiling in healthcare screening and planning

SO PCT Int. Appl., 149 pp.
CODEN: PIXXD2

IN Roberts, Gareth Wyn
AN 1999:795993 HCAPLUS

DN 132:31743

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9964626	A2	19991216	WO 1999-GB1779	19990604
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
CA 2330929	AA	19991216	CA 1999-2330929	19990604
AU 9941586	A1	19991230	AU 1999-41586	19990604
AU 766544	B2	20031016		
AU 9941587	A1	19991230	AU 1999-41587	19990604
GB 2339200	A1	20000119	GB 1999-12914	19990604
GB 2339200	B2	20010912		
EP 1084273	A1	20010321	EP 1999-925207	19990604
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2003528564	T2	20030930	JP 2000-553616	19990604
US 2003198970	A1	20031023	US 2002-206568	20020729

L38 ANSWER 40 OF 43 MEDLINE on STN DUPLICATE 20
TI Cyclophilin C-associated protein: a normal secreted glycoprotein that down-modulates endotoxin and proinflammatory responses in vivo.
SO Proceedings of the National Academy of Sciences of the United States of America, (1999 Mar 16) Vol. 96, No. 6, pp. 3006-11.
Journal code: 7505876. ISSN: 0027-8424.

AU Trahey M; Weissman I L
AN 1999179005 MEDLINE

L38 ANSWER 41 OF 43 MEDLINE on STN DUPLICATE 21
TI Molecular cytogenetic delineation of the critical deleted region in the 5q- syndrome.
SO Genes, chromosomes & cancer, (1998 Jul) Vol. 22, No. 3, pp. 251-6.
Journal code: 9007329. ISSN: 1045-2257.

AU Jaju R J; Boultwood J; Oliver F J; Kostrzewska M; Fidler C; Parker N; McPherson J D; Morris S W; Muller U; Wainscoat J S; Kearney L
AN 1998287633 MEDLINE

L38 ANSWER 42 OF 43 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights reserved on STN
TI Search of sequence databases with uninterpreted high-energy collision-induced dissociation spectra of peptides.
SO Journal of the American Society for Mass Spectrometry, (1996) Vol. 7, No. 11, pp. 1089-1098.
ISSN: 1044-0305 CODEN: JAMSEF
AU Yates III J.R.; Eng J.K.; Clauser K.R.; Burlingame A.L.
AN 96328113 EMBASE

L38 ANSWER 43 OF 43 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Regulators of angiogenesis
SO Nippon Yakurigaku Zasshi (1996), 107(3), 109-17

AU CODEN: NYKZAU; ISSN: 0015-5691
AU Sato, Yasufumi
AN 1996:151703 HCPLUS
DN 124:227423

=> d ab 29,33,42

L38 ANSWER 29 OF 43 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights reserved on STN DUPLICATE 16
AB Complementary DNAs coding for two subunits of hamster interleukin-12 (IL-12), p35 and p40, were cloned from a hamster dendritic cell (DC) cDNA library. The cloning demonstrated that hamster IL-12 consisted of a p35 subunit with 216 amino acid (aa) residues and a p40 subunit with 327 aa. Structural comparison of hamster p35 and p40 at the protein level showed the highest homologies with each counterpart of *sigmodon* (hispid cotton rat). The gene expressions of hamster IL-12 p35 and p40 in bone marrow (BM) cells cultured in the presence of mouse granulocyte macrophage-colony-stimulating factor (mGM-CSF) and IL-4 were up-regulated during culture. Immunoblot analysis of 293 cells transfected with hamster p35 and p40 expression vectors suggested the presence of a covalently linked p35/p40 heterodimer. Furthermore, supernatant from the 293 cells transfected with both expression vectors induced the up-regulation of interferon-gamma (IFN- γ) mRNA in hamster splenocytes, indicating that the p35/p40 heterodimer IL-12 protein present in the supernatant was functional. These results suggest that the vectors containing hamster IL-12 cDNA might be suitable tools for developing an immunotherapeutic approach against experimental cancer in a hamster model. .COPYRGT. 2003 Elsevier Ltd. All rights reserved.

L38 ANSWER 33 OF 43 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
AB US2002052030 A UPAB: 20050107
NOVELTY - Feline interleukin 18 (IL-18), feline caspase-1, feline IL-12 single chain and canine IL-12 single chain proteins are new.
DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:
(1) an isolated nucleic acid (N1) selected from:
(a) an isolated nucleic acid molecule selected from:
(i) a nucleic acid comprising a sequence (R1) selected from the 514 (S1), 514 (S3), 502 (S4), 502 (S6), 607 (S7), 607 (S10), 576 (S9), 576 (S41), 471 (S11), 471 (S13), 1233 (S14), 1233 (S16), 526 (S17), 526 (S14), 500 (S20), 500 (S22), 1230 (S23) or 1230 (S25) nucleotide sequence defined in the specification;
(ii) a nucleic acid comprising at least 70 contiguous nucleotides identical in sequence to at least 70 contiguous nucleotides of R1;
(b) an isolated nucleic acid molecule selected from:
(i) an isolated nucleic acid (R2) comprising a sequence selected from the 921 (S26) or 987 (S29) sequence defined in the specification, a nucleic acid sequence comprising at least 44 contiguous nucleotides identical in sequence to at least 44 contiguous nucleotides of a sequence selected from S26 and S29, a nucleic acid linker of (XXX) n where n=0 to 60, an isolated nucleic acid molecule comprising a sequence selected from the 666 (S32) or 591 (S35) sequence defined in the specification, or a nucleic acid molecule comprising at least 44 contiguous nucleotides identical in sequence to at least 44 contiguous nucleotides of a nucleic acid sequence selected from the group consisting of S32 and S35, such that the nucleic acid molecule encodes a feline IL-12 single chain protein; or
(ii) a nucleic acid comprising a sequence fully complementary to the coding strand of (i);
(c) an isolated nucleic acid molecule selected from:
(i) an isolated nucleic acid (R3) comprising a sequence selected from the 921 (S52) or 987 (S58) sequence defined in the specification, a

nucleic acid sequence comprising at least 47 contiguous nucleotides identical in sequence to at least 47 or 55 contiguous nucleotides of a sequence selected from S26 and S29, a nucleic acid linker of (XXX)_n where n=0 to 60, an isolated nucleic acid molecule comprising a sequence selected from the 666 (S46) or 666 (S49) sequence defined in the specification, or a nucleic acid molecule comprising at least 44 contiguous nucleotides identical in sequence to at least 44 or 55 contiguous nucleotides of a nucleic acid sequence selected from the group consisting of S46 and S49, such that the nucleic acid molecule encodes a canine IL-12 single chain protein; or

(ii) a nucleic acid comprising a sequence fully complementary to the coding strand of (i);

(d) an isolated nucleic acid molecule selected from:

(i) a nucleic acid having a sequence that is at least 92 percent identical to a sequence selected from R1;

(ii) a nucleic acid comprising a fragment of (i) where the fragment is at least 80 or 85 nucleotides in length;

(e) an isolated nucleic acid molecule selected from:

(i) a nucleic acid comprising a sequence that is at least 87 percent identical to R1; or

(ii) a nucleic acid comprising a sequence fully complementary to the coding strand of the nucleic acid of (i);

(f) a nucleic acid encoding an IL-18 protein selected from:

(i) a protein having an amino acid sequence that is at least 92 percent identical to an amino acid sequence (R3) selected from the 133 (S2), 154 (S5), 192 (S8) or 157 (S12) amino acid sequence defined in the specification, or its fragments (where the fragment is at least 30 amino acids in length), or

(ii) a protein comprising at least 25 contiguous amino acids identical in sequence to at least 25 contiguous amino acids of a sequence selected from R3;

(g) a nucleic acid encoding a caspase-1 protein selected from:

(i) a protein having an amino acid sequence that is at least 85 percent identical to an amino acid sequence (R4) selected from the 410 (S15), 169 (S18), 120 (S21) or 410 (S24) amino acid sequence defined in the specification, or its fragments (where the fragment is at least 30 amino acids in length), or

(ii) a protein comprising at least 25 contiguous amino acids identical in sequence to at least 25 contiguous amino acids of a sequence selected from R4;

(h) a nucleic acid encoding an IL-12 single chain protein comprising an IL-12 p40 subunit domain linked to a IL-12 p35 subunit domain; or

(i) a nucleic acid molecule comprising a sequence fully complementary to the coding strand of any sequence selected from (a) to (h).

(2) a recombinant molecule comprising N1;

(3) a recombinant virus comprising N1;

(4) a recombinant cell comprising N1;

(5) a method to regulate an immune response comprising administering to an animal a composition comprising N1;

(6) a method to produce a protein comprising culturing the recombinant cell of (4);

(7) an isolated protein (P1) selected from:

(a) an IL-18 protein selected from:

(i) a protein having an amino acid sequence that is at least 92 percent identical to an amino acid sequence selected from R3, or its fragments (where the fragment is at least 30 amino acids in length), or

(ii) a protein comprising at least 25 contiguous amino acids identical in sequence to at least 25 contiguous amino acids of a sequence selected from R3;

(b) a caspase-1 protein selected from:

(i) a protein having an amino acid sequence that is at least 85 percent identical to an amino acid sequence selected from R4, or its fragments (where the fragment is at least 30 amino acids in length), or

(ii) a protein comprising at least 25 contiguous amino acids

identical in sequence to at least 25 contiguous amino acids of a sequence selected from R4; or

(c) an isolated IL-12 single chain protein comprising an IL-12 p40 subunit domain linked to an IL-12 p35 subunit domain;

(8) an isolated antibody that selectively binds to P1;

(9) a composition comprising an excipient and a compound selected from the P1, a mimetope of P1, a multimeric form of P1, an antibody that selectively binds to P1, or an inhibitor identified by its ability to inhibit the activity of P1;

(10) a method to produce a protein, comprising culturing a recombinant cell capable of expressing P1; and

(11) a method (M1) to identify a compound capable of regulating an immune response in an animal.

ACTIVITY - Immunosuppressive; antiallergic; cytostatic; antiinflammatory; antimicrobial.

No biological data given.

MECHANISM OF ACTION - Gene therapy.

No biological data given.

USE - A composition comprising a feline IL-18, feline caspase-1, feline IL-12 single chain or canine IL-12 single chain proteins, a nucleic acid encoding these proteins, mimetopes of these proteins, multimeric forms of these proteins, an antibody against these proteins, or an inhibitor identified by its ability to inhibit the activity of these proteins, can be used to treat or prevent autoimmune diseases, allergic reactions, infectious diseases, tumor development, inflammatory diseases and/or graft rejection in animals.

Dwg. 0/0

L38 ANSWER 42 OF 43 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights reserved on STN

AB We have broadened the utility of the SEQUEST computer algorithm to permit correlation of uninterpreted high-energy collision-induced dissociation spectra of peptides with all sequences in a database. SEQUEST now allows for the additional fragment ion types observed under high-energy conditions. We analyzed spectra from peptides isolated following trypsin digestion of 13 proteins. SEQUEST ranked the correct sequence first for 90% (18/20) of the spectra in searches of the OWL database, without constraint by enzyme cleavage specificity or species of origin. All false-positives were flagged by the scoring system. SEQUEST searches databases for sequences that correspond to the precursor ion mass ± 0.5 u. Preliminary ranking of the top 500 candidates is done by calculation of fragment ion masses for each sequence, and comparison to the measured ion masses on the basis of ion series continuity, summed ion intensity, and immonium ion presence. Final ranking is done by construction of model spectra for the 500 candidates and constructing/performing of a cross-correlation analysis with the actual spectrum. Given the need to relate mounting genome sequence information with corresponding suites of proteins that comprise the cellular molecular machinery, tandem mass spectrometry appears destined to play the leading role in accelerating protein identification on the large scale required.

=> log y
COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE ENTRY 202.93	TOTAL SESSION 203.14
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STN INTERNATIONAL LOGOFF AT 17:02:56 ON 15 MAR 2006

FILE 'HOME' ENTERED AT 18:04:26 ON 15 MAR 2006

=> fil .bec

COST IN U.S. DOLLARS

SINCE FILE TOTAL

	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCPLUS, NTIS,
ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 18:04:33 ON 15 MAR 2006
ALL COPYRIGHTS AND RESTRICTIONS APPLY. SEE HELP USAGETERMS FOR DETAILS.

11 FILES IN THE FILE LIST

=> s cysk or cysteine synthase# or cys k
FILE 'MEDLINE'

77 CYSK
64950 CYSTEINE
92494 SYNTHASE#
228 CYSTEINE SYNTHASE#
(CYSTEINE (W) SYNTHASE#)
13014 CYS
262083 K
5 CYS K
(CYS (W) K)

L1 270 CYSK OR CYSTEINE SYNTHASE# OR CYS K

FILE 'SCISEARCH'

52 CYSK
47434 CYSTEINE
107943 SYNTHASE#
200 CYSTEINE SYNTHASE#
(CYSTEINE (W) SYNTHASE#)
13341 CYS
639296 K
5 CYS K
(CYS (W) K)

L2 238 CYSK OR CYSTEINE SYNTHASE# OR CYS K

FILE 'LIFESCI'

48 CYSK
18083 "CYSTEINE"
23974 SYNTHASE#
88 CYSTEINE SYNTHASE#
("CYSTEINE" (W) SYNTHASE#)
6246 "CYS"
88069 "K"
5 CYS K
("CYS" (W) "K")

L3 125 CYSK OR CYSTEINE SYNTHASE# OR CYS K

FILE 'BIOTECHDS'

51 CYSK
4207 CYSTEINE
6084 SYNTHASE#
59 CYSTEINE SYNTHASE#
(CYSTEINE (W) SYNTHASE#)
2696 CYS
9421 K
3 CYS K
(CYS (W) K)

L4 82 CYSK OR CYSTEINE SYNTHASE# OR CYS K

FILE 'BIOSIS'

76 CYSK
59166 CYSTEINE
99829 SYNTHASE#
217 CYSTEINE SYNTHASE#
(CYSTEINE (W) SYNTHASE#)
14029 CYS

267312 K
12 CYS K
(CYS (W) K)
L5 279 CYSK OR CYSTEINE SYNTHASE# OR CYS K

FILE 'EMBASE'
58 CYSK
49498 "CYSTEINE"
90605 SYNTHASE#
194 CYSTEINE SYNTHASE#
("CYSTEINE" (W) SYNTHASE#)
11600 "CYS"
260888 "K"
6 CYS K
("CYS" (W) "K")
L6 229 CYSK OR CYSTEINE SYNTHASE# OR CYS K

FILE 'HCAPLUS'
175 CYSK
100080 CYSTEINE
94906 SYNTHASE#
359 CYSTEINE SYNTHASE#
(CYSTEINE (W) SYNTHASE#)
19777 CYS
1351798 K
5 CYS K
(CYS (W) K)
L7 456 CYSK OR CYSTEINE SYNTHASE# OR CYS K

FILE 'NTIS'
0 CYSK
490 CYSTEINE
232 SYNTHASE#
0 CYSTEINE SYNTHASE#
(CYSTEINE (W) SYNTHASE#)
70 CYS
52295 K
0 CYS K
(CYS (W) K)
L8 0 CYSK OR CYSTEINE SYNTHASE# OR CYS K

FILE 'ESBIOBASE'
41 CYSK
23797 CYSTEINE
44390 SYNTHASE#
96 CYSTEINE SYNTHASE#
(CYSTEINE (W) SYNTHASE#)
8427 CYS
122903 K
4 CYS K
(CYS (W) K)
L9 126 CYSK OR CYSTEINE SYNTHASE# OR CYS K

FILE 'BIOTECHNO'
43 CYSK
22339 CYSTEINE
29457 SYNTHASE#
130 CYSTEINE SYNTHASE#
(CYSTEINE (W) SYNTHASE#)
7657 CYS
84757 K
4 CYS K
(CYS (W) K)
L10 155 CYSK OR CYSTEINE SYNTHASE# OR CYS K

FILE 'WPIDS'
 44 CYSK
 8451 CYSTEINE
 4998 SYNTHASE#
 43 CYSTEINE SYNTHASE#
 (CYSTEINE(W) SYNTHASE#)
 5099 CYS
 128310 K
 5 CYS K
 (CYS(W) K)
L11 63 CYSK OR CYSTEINE SYNTHASE# OR CYS K

TOTAL FOR ALL FILES
L12 2023 CYSK OR CYSTEINE SYNTHASE# OR CYS K

=> s l12 and coli
FILE 'MEDLINE'
 249439 COLI
L13 94 L1 AND COLI

FILE 'SCISEARCH'
 228507 COLI
L14 112 L2 AND COLI

FILE 'LIFESCI'
 98566 COLI
L15 45 L3 AND COLI

FILE 'BIOTECHDS'
 45798 COLI
L16 47 L4 AND COLI

FILE 'BIOSIS'
 276935 COLI
L17 71 L5 AND COLI

FILE 'EMBASE'
 177426 COLI
L18 68 L6 AND COLI

FILE 'HCAPLUS'
 266744 COLI
L19 158 L7 AND COLI

FILE 'NTIS'
 2811 COLI
L20 0 L8 AND COLI

FILE 'ESBIOBASE'
 69062 COLI
L21 40 L9 AND COLI

FILE 'BIOTECHNO'
 94549 COLI
L22 60 L10 AND COLI

FILE 'WPIDS'
 18950 COLI
L23 18 L11 AND COLI

TOTAL FOR ALL FILES
L24 713 L12 AND COLI

=> s l12(10a) (gene/q or polynucleotide# or nucleic or dna)
FILE 'MEDLINE'

9646 POLYNUCLEOTIDE#
180990 NUCLEIC
844105 DNA
L25 57 L1 (10A) (GENE/Q OR POLYNUCLEOTIDE# OR NUCLEIC OR DNA)

FILE 'SCISEARCH'
4272 POLYNUCLEOTIDE#
36280 NUCLEIC
596501 DNA
L26 46 L2 (10A) (GENE/Q OR POLYNUCLEOTIDE# OR NUCLEIC OR DNA)

FILE 'LIFESCI'
2065 POLYNUCLEOTIDE#
13623 NUCLEIC
273320 DNA
L27 49 L3 (10A) (GENE/Q OR POLYNUCLEOTIDE# OR NUCLEIC OR DNA)

FILE 'BIOTECHDS'
20597 POLYNUCLEOTIDE#
48632 NUCLEIC
141531 DNA
L28 54 L4 (10A) (GENE/Q OR POLYNUCLEOTIDE# OR NUCLEIC OR DNA)

FILE 'BIOSIS'
7472 POLYNUCLEOTIDE#
52819 NUCLEIC
1123867 DNA
L29 73 L5 (10A) (GENE/Q OR POLYNUCLEOTIDE# OR NUCLEIC OR DNA)

FILE 'EMBASE'
3855 POLYNUCLEOTIDE#
36698 NUCLEIC
633493 DNA
L30 41 L6 (10A) (GENE/Q OR POLYNUCLEOTIDE# OR NUCLEIC OR DNA)

FILE 'HCAPLUS'
21127 POLYNUCLEOTIDE#
180141 NUCLEIC
760795 DNA
L31 233 L7 (10A) (GENE/Q OR POLYNUCLEOTIDE# OR NUCLEIC OR DNA)

FILE 'NTIS'
134 POLYNUCLEOTIDE#
1829 NUCLEIC
9255 DNA
L32 0 L8 (10A) (GENE/Q OR POLYNUCLEOTIDE# OR NUCLEIC OR DNA)

FILE 'ESBIOBASE'
896 POLYNUCLEOTIDE#
26979 NUCLEIC
280090 DNA
L33 42 L9 (10A) (GENE/Q OR POLYNUCLEOTIDE# OR NUCLEIC OR DNA)

FILE 'BIOTECHNO'
1566 POLYNUCLEOTIDE#
19939 NUCLEIC
388151 DNA
L34 43 L10 (10A) (GENE/Q OR POLYNUCLEOTIDE# OR NUCLEIC OR DNA)

FILE 'WPIDS'
25658 POLYNUCLEOTIDE#
60402 NUCLEIC
69416 DNA
L35 45 L11 (10A) (GENE/Q OR POLYNUCLEOTIDE# OR NUCLEIC OR DNA)

TOTAL FOR ALL FILES
L36 683 L12(10A) (GENE/Q OR POLYNUCLEOTIDE# OR NUCLEIC OR DNA)

=> s 124 and 136
FILE 'MEDLINE'
L37 30 L13 AND L25

FILE 'SCISEARCH'
L38 34 L14 AND L26

FILE 'LIFESCI'
L39 24 L15 AND L27

FILE 'BIOTECHDS'
L40 31 L16 AND L28

FILE 'BIOSIS'
L41 34 L17 AND L29

FILE 'EMBASE'
L42 20 L18 AND L30

FILE 'HCAPLUS'
L43 124 L19 AND L31

FILE 'NTIS'
L44 0 L20 AND L32

FILE 'ESBIOBASE'
L45 18 L21 AND L33

FILE 'BIOTECHNO'
L46 21 L22 AND L34

FILE 'WPIDS'
L47 8 L23 AND L35

TOTAL FOR ALL FILES
L48 344 L24 AND L36

=> s 148 not 2004-2006/py
FILE 'MEDLINE'
1340609 2004-2006/PY
(20040000-20069999/PY)
L49 26 L37 NOT 2004-2006/PY

FILE 'SCISEARCH'
2454856 2004-2006/PY
(20040000-20069999/PY)
L50 29 L38 NOT 2004-2006/PY

FILE 'LIFESCI'
189530 2004-2006/PY
L51 22 L39 NOT 2004-2006/PY

FILE 'BIOTECHDS'
57568 2004-2006/PY
L52 26 L40 NOT 2004-2006/PY

FILE 'BIOSIS'
1037088 2004-2006/PY
L53 31 L41 NOT 2004-2006/PY

FILE 'EMBASE'
1128493 2004-2006/PY

L54 18 L42 NOT 2004-2006/PY

FILE 'HCAPLUS'
2560325 2004-2006/PY

L55 65 L43 NOT 2004-2006/PY

FILE 'NTIS'
26131 2004-2006/PY
L56 0 L44 NOT 2004-2006/PY

FILE 'ESBIOBASE'
671688 2004-2006/PY
L57 15 L45 NOT 2004-2006/PY

FILE 'BIOTECHNO'
586 2004-2006/PY
L58 21 L46 NOT 2004-2006/PY

FILE 'WPIDS'
2523867 2004-2006/PY
L59 2 L47 NOT 2004-2006/PY

TOTAL FOR ALL FILES
L60 255 L48 NOT 2004-2006/PY

=> dup rem 160
PROCESSING COMPLETED FOR L60
L61 101 DUP REM L60 (154 DUPLICATES REMOVED)

=> d tot

L61 ANSWER 1 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Preparing L-amino acids, e.g. L-threonine, by fermenting microorganisms
of Enterobacteriaceae family in which talB gene is enhanced, preferably
over-expressed, and isolating L-amino acid from the culture medium;
vector-mediated gene transfer and expression in host cell for strain
improvement and L-amino acid preparation

AU RIEPING M
AN 2003-11500 BIOTECHDS
PI WO 2003008611 30 Jan 2003

L61 ANSWER 2 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Producing L-amino acids, in particular L-threonine, by fermenting
microorganisms of Enterobacteriaceae family in which genes iclR and fadR
are enhanced, in particular over-expressed and isolating the L-amino
acid;
vector-mediated gene transfer and expression in host cell for strain
improvement and amino acid preparation

AU RIEPING M; SIEBELT N
AN 2003-18376 BIOTECHDS
PI WO 2003038106 8 May 2003

L61 ANSWER 3 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Preparing L-amino acids, e.g. L-threonine, by fermenting microorganisms
of Enterobacteriaceae family in which the aceK gene is attenuated, in
particular eliminated, and isolating L-amino acid from culture medium;
vector-mediated gene transfer and expression in host cell for strain
improvement and L-amino acid preparation

AU HERMANN T
AN 2003-11502 BIOTECHDS
PI WO 2003008616 30 Jan 2003

L61 ANSWER 4 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Preparing L-amino acids, in particular L-threonine, by fermenting
microorganisms of Enterobacteriaceae family in which genes such as succ

and sucD, are enhanced, in particular over-expressed and isolating L-amino acid;
involving vector-mediated phoE gene transfer and expression in host cell and fermentation for use in foodstuff and pharmaceutical industry

AU RIEPING M
AN 2003-11686 BIOTECHDS
PI WO 2003008615 30 Jan 2003

L61 ANSWER 5 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Preparing L-amino acids, in particular L-threonine, by fermenting microorganisms of Enterobacteriaceae family in which genes such as sucA and sucB, are enhanced, in particular over-expressed and isolating L-amino acid;
vector-mediated gene transfer and expression in host cell for strain improvement and L-amino acid preparation

AU RIEPING M
AN 2003-11501 BIOTECHDS
PI WO 2003008614 30 Jan 2003

L61 ANSWER 6 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Preparing L-amino acids, in particular L-threonine, by fermenting microorganisms of Enterobacteriaceae family in which superoxide dismutase gene, is enhanced, in particular over-expressed, and isolating L-amino acid;
vector-mediated gene transfer and expression in host cell for strain improvement and L-amino acid preparation

AU RIEPING M
AN 2003-11496 BIOTECHDS
PI WO 2003008613 30 Jan 2003

L61 ANSWER 7 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Preparing L-amino acids, especially L-threonine, by fermenting microorganisms of Enterobacteriaceae family in which rseA, rseC genes are enhanced, preferably over-expressed and isolating amino acid from culture medium;
involving vector-mediated phoE gene transfer and expression in host cell and fermentation for use in foodstuff and pharmaceutical industry

AU RIEPING M
AN 2003-11685 BIOTECHDS
PI WO 2003008612 30 Jan 2003

L61 ANSWER 8 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Preparing L-amino acids, e.g. L-threonine, by fermenting microorganisms of Enterobacteriaceae family in which pfkB gene is enhanced, preferably over-expressed, and isolating L-amino acid from the culture medium;
vector-mediated gene transfer and expression in host cell for strain improvement and L-amino acid preparation

AU RIEPING M
AN 2003-11495 BIOTECHDS
PI WO 2003008610 30 Jan 2003

L61 ANSWER 9 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Preparing L-amino acids, e.g. L-threonine by fermenting microorganisms of Enterobactericeae family in which at least the pykF gene is enhanced, in particular overexpressed, and isolating the desired amino acid;
vector-mediated phoE gene transfer and expression in host cell for use in L-amino-acid preparation

AU RIEPING M
AN 2003-11684 BIOTECHDS
PI WO 2003008609 30 Jan 2003

L61 ANSWER 10 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Preparing L-amino acids, in particular L-threonine, by fermenting microorganisms of Enterobacteriaceae family in which phoE gene coding for protein E of outer cell membrane is enhanced and isolating L-amino acid;

vector-mediated phoE gene transfer and expression in host cell for use
in L-amino-acid preparation

AU RIEPING M
AN 2003-11683 BIOTECHDS
PI WO 2003008608 30 Jan 2003

L61 ANSWER 11 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Preparing L-amino acids, e.g. L-threonine, by fermenting microorganisms
of Enterobacteriaceae family in which phoB and/or phoR genes are
enhanced, preferably over-expressed, isolating L-amino acid from culture
medium;
vector-mediated gene transfer and expression in host cell for strain
improvement and L-amino acid preparation

AU RIEPING M
AN 2003-11499 BIOTECHDS
PI WO 2003008606 30 Jan 2003

L61 ANSWER 12 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Preparing L-amino acids, e.g. L-threonine by fermenting microorganisms
of Enterobacteriaceae family in which at least the malE gene is enhanced,
in particular overexpressed, and isolating the desired amino acid;
L-amino acid production via bacterium fermentation

AU RIEPING M
AN 2003-11385 BIOTECHDS
PI WO 2003008605 30 Jan 2003

L61 ANSWER 13 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Preparing L-amino acids, e.g. L-threonine, by fermenting microorganisms
of Enterobacteriaceae family in which the aceB gene is attenuated, in
particular eliminated, and isolating L-amino acid from culture medium;
involving Enterobacter sp. fermentation for use in pharmaceutical and
food industry and as a food-additive

AU HERMANN T
AN 2003-11381 BIOTECHDS
PI WO 2003008604 30 Jan 2003

L61 ANSWER 14 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Preparing L-amino acids, in particular L-threonine, by fermenting
microorganisms of Enterobacteriaceae family in which the aspartate
ammonium lyase gene, is attenuated or eliminated and isolating the
L-amino acid;

L-amino acid production via bacterium fermentation

AU HERMANN T
AN 2003-11384 BIOTECHDS
PI WO 2003008603 30 Jan 2003

L61 ANSWER 15 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Preparing L-amino acids, in particular L-threonine, by fermenting
microorganisms of Enterobacteriaceae family in which ugpB gene is
attenuated, in particular eliminated and isolating L-amino acid from
culture medium;
L-amino acid production via bacterium fermentation useful for
pharmaceutical and food industry

AU HERMANN T
AN 2003-11383 BIOTECHDS
PI WO 2003008602 30 Jan 2003

L61 ANSWER 16 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Genetically modified Escherichia coli for the fermentative
production of threonine
SO PCT Int. Appl., 31 pp.
CODEN: PIXXD2
IN Rieping, Mechthild
AN 2003:76945 HCAPLUS
DN 138:118453

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	WO 2003008607	A2	20030130	WO 2002-EP7356	20020703	
	WO 2003008607	A3	20031113			
		W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW			
		RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	DE 10135053	A1	20030206	DE 2001-10135053	20010718	
L61	ANSWER 17 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN					
TI	Fermentation of L-amino acids with Enterobacteriaceae overexpressing icd gene					
SO	Ger. Offen., 6 pp.					
	CODEN: GWXXBX					
IN	Rieping, Mechthild; Hermann, Thomas; Farwick, Mike					
AN	2003:756744 HCAPLUS					
DN	139:260064					
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	DE 10210967	A1	20030925	DE 2002-10210967	20020313	
L61	ANSWER 18 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN					
TI	Fermentation of L-amino acids with Enterobacteriaceae overexpressing the adk gene					
SO	Ger. Offen., 6 pp.					
	CODEN: GWXXBX					
IN	Rieping, Mechthild; Hermann, Thomas					
AN	2003:756743 HCAPLUS					
DN	139:256297					
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	DE 10210961	A1	20030925	DE 2002-10210961	20020313	
L61	ANSWER 19 OF 101 MEDLINE on STN					DUPLICATE 2
TI	Engineering <i>Escherichia coli</i> for increased productivity of serine-rich proteins based on proteome profiling.					
SO	Applied and environmental microbiology, (2003 Oct) Vol. 69, No. 10, pp. 5772-81.					
	Journal code: 7605801. ISSN: 0099-2240.					
AU	Han Mee-Jung; Jeong Ki Jun; Yoo Jong-Shin; Lee Sang Yup					
AN	2003497591 MEDLINE					
L61	ANSWER 20 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN					
TI	Sulfur assimilation in soybean: molecular cloning and characterization of O-acetylserine (thiol) lyase (cysteine synthase)					
SO	Crop Science (2003), 43(5), 1819-1827					
	CODEN: CRPSAY; ISSN: 0011-183X					
AU	Chronis, Demosthenis; Krishnan, Hari B.					
AN	2003:780745 HCAPLUS					
DN	140:316910					
L61	ANSWER 21 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN					
TI	Purification, characterization and gene cloning of thermostable O-acetyl-L-serine sulfhydrylase forming beta-cyano-L-alanine; plasmid-mediated gene transfer and expression in <i>Escherichia coli</i> for recombinant cysteine-synthase production for use in positron emission tomography and diagnosis					
SO	JOURNAL OF BIOSCIENCE AND BIOENGINEERING; (2003) 95, 5, 470-475 ISSN:					

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AN 2003-20737 BIOTECHDS

L61 ANSWER 22 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Semisynthetic production of unnatural L-alpha-amino acids by metabolic
engineering of the cysteine-biosynthetic pathway;
plasmid-mediated mutant serine-O-acetyltransferase and
cysteine-synthase gene transfer and
expression in *Escherichia coli* for acetylserine and cysteine
production

SO NATURE BIOTECHNOLOGY; (2003) 21, 4, 422-427 ISSN: 1087-0156
AU MAIER THP
AN 2003-10877 BIOTECHDS

L61 ANSWER 23 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Analysis of organic solvent tolerance in *Escherichia coli* using
gene expression profiles from DNA microarrays
SO Journal of Bioscience and Bioengineering (2003), 95(4), 379-383
CODEN: JBBIF6; ISSN: 1389-1723
AU Hayashi, Shuhei; Aono, Rikizo; Hanai, Taizo; Mori, Hirotada; Kobayashi,
Takeshi; Honda, Hiroyuki
AN 2003:474256 HCAPLUS
DN 139:144711

L61 ANSWER 24 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Role of *Saccharomyces cerevisiae* serine O-acetyltransferase in cysteine
biosynthesis
SO FEMS Microbiology Letters (2003), 218(2), 291-297
CODEN: FMLED7; ISSN: 0378-1097
AU Takagi, Hiroshi; Yoshioka, Kenji; Awano, Naoki; Nakamori, Shigeru; Ono,
Bun-ichiro
AN 2003:105072 HCAPLUS
DN 139:335177

L61 ANSWER 25 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI New cysD, N, K, E and H genes from coryneform bacteria, useful, when over
expressed, for increasing fermentative production of L-amino acids;
vector plasmid pEC-XK99E-mediated recombinant protein gene transfer
and expression in *Escherichia coli* for use in L-amino acid
preparation and medicine, pharmaceutical and food industries
AU FARWICK M; HUTHMACHER K; PFEFFERLE W; SCHISCHKA N; BATHE B
AN 2002-16465 BIOTECHDS
PI DE 10136986 21 Mar 2002

L61 ANSWER 26 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Production of D-pantothenic acid, optionally as salt and/or contained in
feed additive, by fermenting Enterobacteriaceae strain in which specific
nucleotide sequences have been amplified;
D-pantothenic acid production involving vector expression in host cell
useful for food industry
AU HERMANN T; WITTECK B; RIEPING M; KRUSE D
AN 2003-08898 BIOTECHDS
PI DE 10128780 19 Dec 2002

L61 ANSWER 27 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Fermentative production of L-amino acid, useful e.g. as animal feed
additive, by growing Enterobacteriaceae in which activity of four
specified genes has been reduced;
L-amino acid production by bacterium fermentation useful for
pharmaceutical and food industry and animal nutrition
AU RIEPING M; HERMANN T
AN 2003-07034 BIOTECHDS
PI DE 10116518 17 Oct 2002

L61 ANSWER 28 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN
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 cysteine synthase gene of Thermoanaerobacter
 tengcongensis
 SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 15 pp.
 CODEN: CNXXEV
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 AN 2003:738561 HCAPLUS
 DN 140:106493

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PI CN 1379107	A	20021113	CN 2002-110744	20020201

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 Publication: 2002-06-25.
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 AN 2002365646 MEDLINE

L61 ANSWER 30 OF 101 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
 STN DUPLICATE 5
 TI DNA microarray analysis of the expression profile of Escherichia
 coli in response to treatment with 4,5-dihydroxy-2-cyclopenten-1-
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 CODEN: JOBAAY. ISSN: 0021-9193.
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L61 ANSWER 31 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN
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 coli using DNA macroarrays
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 CODEN: JOBAAY; ISSN: 0021-9193
 AU Weber, Arnim; Jung, Kirsten
 AN 2002:723252 HCAPLUS
 DN 138:20361

L61 ANSWER 32 OF 101 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation
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 which encodes sulfite reductase
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 Martin-Verstraete I (Reprint)
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 Journal code: 2985120R. ISSN: 0021-9193.
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 Yoncheva Yuliya N; Slonczewski Joan L
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TI Journal code: 8712028. ISSN: 0950-382X.
AU Ohtani Kaori; Hayashi Hideo; Shimizu Tohru
AN 2002230093 MEDLINE

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metabolism in *Lactococcus lactis*.
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L61 ANSWER 41 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN
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L61 ANSWER 42 OF 101 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN
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CODEN: GWXXAW

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DN 133:361976

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CA 2386539	AA	20010419	CA 2000-2386539	20001005
WO 2001027307	A1	20010419	WO 2000-EP9720	20001005
W: CA, CN, HU, JP, KR, PL, RU, SK, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 1220940	A1	20020710	EP 2000-969413	20001005
EP 1220940	B1	20030129		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
AT 231918	E	20030215	AT 2000-969413	20001005
JP 2003511086	T2	20030325	JP 2001-530510	20001005

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AN 2000397983 MEDLINE

L61 ANSWER 45 OF 101 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 13

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Journal code: 7706761. ISSN: 0378-1119.
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L61 ANSWER 48 OF 101 MEDLINE on STN DUPLICATE 16
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Journal code: 2985120R. ISSN: 0021-9193.
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L61 ANSWER 49 OF 101 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation
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from *Streptococcus suis*
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ISSN: 0343-8651.
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L61 ANSWER 50 OF 101 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation
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L61 ANSWER 54 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Isolation and characterization of promoter regions from *Streptococcus gordonii* CH1
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CODEN: CUMIDD; ISSN: 0343-8651
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L61 ANSWER 55 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN
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L61 ANSWER 56 OF 101 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
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SO Jpn. Kokai Tokkyo Koho, 20 pp.
CODEN: JKXXAF
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AN 1997:203703 HCAPLUS
DN 126:185078
PATENT NO. KIND DATE APPLICATION NO. DATE
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PI JP 09009982 A2 19970114 JP 1995-168931 19950704

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ISSN: 0172-8083.
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L61 ANSWER 61 OF 101 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN
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L61 ANSWER 62 OF 101 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN
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CODEN: MOMIEE; ISSN: 0950-382X
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L61 ANSWER 64 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN
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SO Molecular & General Genetics (1995), 247(5), 623-32
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AN 1995:692345 HCAPLUS
DN 123:277403

L61 ANSWER 65 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN
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CODEN: FMLED7; ISSN: 0378-1097
AU Kellam, Paul; Dallas, Walter S.; Ballantine, Stuart P.; Delves, Chris J.
AN 1995:988987 HCAPLUS
DN 124:78148

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L61 ANSWER 68 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN
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promoter regions of *Salmonella typhimurium*
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CODEN: JOBAAY; ISSN: 0021-9193
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AN 1994:475159 HCAPLUS
DN 121:75159

L61 ANSWER 69 OF 101 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation
on STN DUPLICATE 21
TI OVEREXPRESSION OF A PLANT **CYSTEINE SYNTHASE**
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L61 ANSWER 72 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN
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L61 ANSWER 79 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
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CHARACTERIZATION AND CDNA CLONING OF AN UP-REGULATED ENZYME DURING
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biosynthesis

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	AU 8946973	A1	19900621	AU 1989-46973	19891219
	AU 636864	B2	19930513		
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	R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE				
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L61 ANSWER 94 OF 101 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
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=> d ab 22,25,28,40,43,44,47,51,58,69,70,81,90,99,100

L61 ANSWER 22 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
AB AUTHOR ABSTRACT - There is an increasing demand for peptide-mimicking molecules to modulate the interactions between proteins of pharmaceutical and agrochemical interest and their target polypeptides. Unnatural L-alpha-amino acids differing from the 20 naturally proteinogenic amino acids only in their side chain are ideal for this purpose, but their chemical synthesis is complex. Here we describe a fermentation-based approach for biosynthesis of unnatural amino acids after re-engineering the cysteine-biosynthetic pathway in *Escherichia coli*. O-acetylation of serine, the committed step of the pathway, was released from feedback inhibition by mutating the serine acetyltransferase gene. Next, the naturally broad substrate specificity of O-acetylserine sulfhydrylase was exploited for the direct *in vivo* incorporation of an unnatural side chain in a semisynthetic fermentation process comparable to the production of beta-lactams. O-acetyl-L-serine extruded from the cells by way of the O-acetylserine efflux protein was amenable to further biotransformations. (6 pages)

L61 ANSWER 25 OF 101 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
AB DERWENT ABSTRACT:
NOVELTY - Isolated polynucleotides (I) from coryneform bacteria containing a sequence that represents at least one of the *cysD*, *N*, *K*, *E* or *H* genes, are new.
DETAILED DESCRIPTION - Isolated polynucleotides (I) from coryneform bacteria containing a sequence that represents at least one of the *cysD*, *N*, *K*, *E* or *H* genes, comprising: (i) a sequence having at least 70% identity with a polynucleotide that encodes one of the polypeptides (A1) (304 amino acids (aa)), (A3) (433 aa), (A4) (311 aa), (A5) (188 aa) or (A6) (261 aa), all reproduced in the specification; (ii) a sequence that encodes a polypeptide at least 70% identical with the polypeptides of (i); (iii) the complement of (i) or (ii); or (iv) a sequence containing at least 15 consecutive nucleotides (nt) from (i)-(iii). The polypeptides preferably have the activities of sulfate-adenylyl transferase (*cysD* and *N*; two subunits); *cysteine synthase A* (*cysK*); serine-acetyl transferase (*cysE*) or 3'-phosphoadenylyl-sulfate reductase (*cysH*). INDEPENDENT CLAIMS are also included for the following: (a) coryneform bacteria in which the activity of the *cysD*, *N*, *K*, *E* or *H* genes has been increased, especially over expressed; (b) the strains *Escherichia coli* DH5alphamer/pEC-XK99E(*cysEb*, *cysKa*, *cysDa*, *cysHa*)alex (DSM 14308, 14310, 14311 and 14315, respectively); (c) fermentative production (II) of L-aa, especially L-lysine, L-cysteine or L-methionine, by growing the cells of (a); (d) coryneform bacteria containing a vector that carries (I); (e) production (III) of fodder additive (A) that contains L-Met by: (i) cultureing/fermenting a L-Met-producing microorganism; (ii) removing water from the culture; (iii) optionally removing at least some of the biomass produced; and (iv) drying the resulting fermentation broth to produce (A) in powdered or

granular form; and (f) (A) produced by method (e).

BIOTECHNOLOGY - Preferred Nucleic Acid: (I) is replicable, preferably recombinant, DNA or is RNA. Particularly it is: (i) a 2640 base pair sequence (N1) (both cys D and N); 2170 bp sequence (N2) (both cysK and E) or a 1240 bp sequence (N3) (cysH) all reproduced in the specification; (ii) an equivalent of (i) within the degeneracy of the genetic code; (iii) a sequence that hybridizes to the complement of (i) or (ii), under conditions of stringency corresponding, at most, to 2 x SSC; or (iv) a functionally neutral sense mutant of (i). Preferred process: In (II), activity of genes in the metabolic pathway that leads to the required aa may be strengthened and pathways that reduce formation of the aa may be weakened. Particularly the expression of the new genes is increased (especially over expressed) and/or the activity of the encoded protein is increased. Especially over expression is achieved by incorporating a vector that contains (I). Particularly activity of at least one of the following genes may be increased: dapA (dihydrodipicolinate synthase); gap (glyceraldehyde-3-phosphate dehydrogenase); tpi (triosephosphate isomerase); pgk (3-phosphoglycerate kinase); zwf (glucose-6-phosphate dehydrogenase); pyc (pyruvate carboxylase); mgo (malate-quinone oxidoreductase); lysC (feedback-resistant aspartate kinase); lysE (lysine export); hom (homoserine dehydrogenase); ilvA (threonine dehydratase, or its feedback-resistant allele); ilvBN (acetohydroxy acid synthase); ilvD (dihydroxyacid dehydratase) or zwal (Zwa1). The activity of one or more of the following genes may be reduced: pck (phosphoenolpyruvate-carboxykinase); pgi (glucose-6-phosphate isomerase); poxB (pyruvate oxidase) and zwa2 (Zwa2). For production of L-Cys, activity of the genes aecD (cystathioninbeta-lyase) and/or metB (cystathionin-gamma-lyase) may also be reduced. In method (III), the microorganism may have additional genes in the pathway to Met overexpressed and those that reduce formation of Met suppressed. Optionally D- and/or L-Met is added to the broth, before and/or after drying, optionally also auxiliaries that improve stability and storage life, and the finished product may be coated with a film former that is stable in the stomach (especially rumen) of animals. For all fermentations, the microorganism is especially *Corynebacterium glutamicum* DSM 5715 that has been transformed with one of the vectors of (b) and fermentation is at 20-45, preferably 25-40, degreesC, for 10-160 hr. Preparation: A cosmid library of chromosomal DNA from *C. glutamicum* ATCC 13032 was established in *Escherichia coli* NM544 and inserts in selected colonies sequenced to identify (1), (4) and (7). These genes were amplified (primer sequences given) and the amplicons cloned into the *E. coli* - *Corynebacterium glutamicum* shuttle vector pEC-XK99E (map reproduced) to form the vectors of (b). These were introduced by electroporation into *C. glutamicum* DSM 5715.

USE - Coryneform bacteria in which activity of (I) has been increased, especially overexpressed, are useful in fermentative production of L-amino acids, specifically L-lysine, L-cysteine or L-methione, useful in human medicine, the pharmaceutical and food industries, and especially in animal nutrition. (I) is also useful as source of probes, and primers, for identifying nucleic acids that encode the new proteins or closely similar sequences.

ADVANTAGE - Increasing the activity of the cys genes increases production of L-amino acids in coryneform bacteria.

EXAMPLE - The *Corynebacterium glutamicum* strain DSM 5715 was grown of medium for 48 hour to produce a medium containing 13.11 g/l lysine hydrochloride. When the same strain was transformed with the cysH-expressing vector peck-XK99EcysHalex, it produced 15.22 g/l. (36 pages)

DH5α.

L61 ANSWER 40 OF 101 MEDLINE on STN DUPLICATE 11
AB The nucleotide sequence of a 4,539 bp fragment of *Bacillus stearothermophilus* V mediating tellurite resistance in *Escherichia coli* was determined. Four ORFs of more than 150 amino acids encoding polypeptides of 244, 258, 308, and 421 residues were found in the restriction fragment. *E. coli* cells harboring a recombinant plasmid containing the Ter determinant express, when challenged with tellurite, a 32 kDa protein with an amino terminal sequence identical to the ten first residues of the 308 ORF. This ORF shows great similarity with the *cysteine synthase gene* (*cysK*) of a number of organisms. Recombinant clones carrying the active *cysK* gene have minimal inhibitory concentrations to K2TeO₃ that were tenfold higher than those determined for the host strain or that of clones carrying ORFs 244, 258, and 421. Introduction of the *B. stearothermophilus* V *cysK* gene into a *cysK* strain of *Salmonella typhimurium* LT2 resulted in complementation of the mutation as well as transfer of tellurite resistance.

L61 ANSWER 43 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN
AB The invention provides a process for the production of L-cysteine or L-cysteine-derivs. by a fed-batch fermentation of a recombinant *Escherichia coli* strain as well procedures for the construction of the genetically engineered *E. coli* strain. This microbial strain, *Escherichia coli* W3110/pHC34, which is suitable for the fermentative production of L-cysteine, possesses a deregulated cysteine metabolism, not based on a changed CysB (*cysteine synthase*) activity, but characterized by an increased CysB activity due to multiple gene dosage and high plasmid copy nos. The expression of the *cysB* gene was also rendered constitutive through site directed mutation of its gene sequence. Addnl., the pHc34 plasmid carries a modified *cysEX* gene which code for a feedback resistant serine acetyltransferase and for deregulated cysteine efflux. Thus, *Escherichia coli* W3110/pHC34 produced 10.0 g/L of L-cysteine and 12.6 g/L of cystine after 48 h of fermentation on with a glucose and thiosulfate mixed feed.

L61 ANSWER 44 OF 101 MEDLINE on STN DUPLICATE 12
AB A chromosomal fragment has been identified in a gene bank from *Escherichia coli*, which augmented the yield of cysteine in an industrial production strain. Subcloning and genetic analysis showed that an open reading frame coding for a product of 299 amino acids (Orf299) was responsible. Orf299 was synthesized in the T7 polymerase/promoter system and exhibited the properties of an integral membrane protein. Mutational interruption of *orf299* did not cause a distinct phenotype; however, transformants overexpressing *orf299* had lost the ability to grow in minimal medium unless it was supplemented with a source of reduced sulphur compounds, and they excreted considerable amounts of cysteine and O-acetyl-L-serine, especially in the presence of thiosulphate. Most of the cysteine was found to be masked in 2-methyl-2,4-thiazolidinedicarboxylic acid. N-acetyl-L-serine was also present in the medium, but it is open to question whether it represents a primary excretion product. Measurement of the induction status of the cysteine regulon by means of a *cysK*'-'lacZ gene fusion demonstrated that the regulon is not induced upon growth in the presence of a poor sulphur source and that the introduction of a constitutive *cysB* allele alleviates this deficiency. The results indicate that *orf299* codes for an export pump for different metabolites of the cysteine pathway. Its relation to other efflux systems and the physiological role are discussed.

L61 ANSWER 47 OF 101 MEDLINE on STN DUPLICATE 15
AB The plants belonging to the genus *Allium* are known to accumulate sulfur-containing secondary compounds that are derived from cysteine. Here, we report on molecular cloning and functional characterization of

two cDNAs that encode serine acetyltransferase and **cysteine synthase** from *A. tuberosum* (Chinese chive). The cDNA for serine acetyltransferase encodes an open reading frame of 289 amino acids, of which expression could complement the lacking of *cysE* gene for endogenous serine acetyltransferase in *Escherichia coli*. The cDNA for **cysteine synthase** encodes an open reading frame of 325 amino acids, of which expression in the *E. coli* lacking endogenous **cysteine synthase genes** could functionally rescue the growth without addition of cysteine. Both deduced proteins seem to be localized in cytosol, judging from their primary structures. Northern blot analysis indicated that both transcripts accumulated in almost equal levels in leaves and root of green and etiolated seedlings of *A. tuberosum*. The activity of recombinant serine acetyltransferase produced from the cDNA was inhibited by L-cysteine, which is the end-product of the pathway; however, the sensitivity to cysteine (48.7 microM of the concentration for 50% inhibition, IC(50)) was fairly low compared with that of previously reported serine acetyltransferases (approximately 5 microM IC(50)) from various plants. In *A. tuberosum*, the cellular content of cysteine was several-fold higher than those in *Arabidopsis thaliana* and tobacco. This higher concentration of cysteine in *A. tuberosum* is likely due to the lower sensitivity of feedback inhibition of serine acetyltransferase to cysteine.

L61 ANSWER 51 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN
AB Plant expression cassettes containing either the *Escherichia coli* *cysE* gene (encoding SAT) or *cysK* gene (encoding OAS-TL) were constructed. After the Agrobacterium-mediated transformation of tobacco we identified stable transformed plants containing several-fold higher SAT or OAS-TL activity in comparison to the control plants. Selected plants were further characterized. Determination of non-protein thiol content indicated 2- to 3-fold higher cysteine and glutathione levels in some of these transgenic plants and their progeny. The maximal elevation of the cysteine level was about fourfold while that of GSH was about twofold higher than in the controls. The most striking physiol. consequence of the modification of sulfur metabolite levels in the transgenic plants, however, was their increased resistance to oxidative stress generated by exogenous hydrogen peroxide.

L61 ANSWER 58 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN
AB Disclosed is a method for the production of S-containing amino acids by cultivation of microorganisms that express the genes for serine acetyl transferase (gene *cysE*), phosphotransacetylase (gene *pta*), and O-acetylserine lyase (gene *cysK*) in a medium containing serine, sulfides, acetyl CoA, and acetyl phosphoric acid. Recombinant bacteriophage λ 501CYSxPTA carrying genes *cysE*, *cysK*, and *pta* was prepared and used for the transformation of *Escherichia coli* strain 1100. The transformant was able to produce S-containing amino acids at a level of 1.2 mM/30 min., as compared to 0.6 o that of the control.

L61 ANSWER 69 OF 101 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 21
AB **Cysteine synthase** (EC 4.2.99.8) in higher plants is responsible for biosynthesis of not only cysteine but also some nonprotein amino acids such as beta-(pyrazol-1-yl)-L-alanine. The cDNA of a **cysteine synthase** from spinach (*Spinacia oleracea*) was inserted into pET8c (=pET3d) under the transcriptional control of strong T7 promoter to yield an overexpression vector pCEK1. The amount of the exogenous **cysteine synthase** was increased up to 40% of the total soluble protein of *Escherichia coli* transformed with pCEK1. beta-(Pyrazol-1-yl)-L-alanine, a specific metabolite in plants of the Cucurbitaceae, was biosynthesized by overexpressed **cysteine synthase** from pyrazole in the presence of O-acetyl-L-serine and serine, in vitro and in vivo, respectively. The present study provides

the system for mechanistic investigation of biosynthesis of cysteine and biogenetically related beta-substituted alanines at molecular genetic level.

L61 ANSWER 70 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN
AB Cysteine synthase plays a key role in the sulfur assimilation pathway in plant cells. The cDNA clones encoding two isoforms of this enzyme were isolated from spinach by synthetic oligonucleotide probes. The modes of expression of these two genes differed in tissues of spinach. A heterologous expression system in *Escherichia coli* and transgenic tobacco was made. The application of heterologous expression to modify sulfur metabolism and to produce non-protein amino acids is discussed.

L61 ANSWER 81 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 25
AB Cysteine synthase (CSase) [O-acetyl-L-serine acetate-lyase (adding hydrogen sulfide), EC 4.2.99.8] catalyzes the formation of L-cysteine, the key step in sulfur assimilation in plants, from O-acetyl-L-serine and hydrogen sulfide. The isolation and characterization of cDNA clones encoding cysteine synthase from spinach (*Spinacia oleracea*) is reported. Internal peptide sequences were obtained from V8 protease-digested fragments of purified CSase. A λgt10 cDNA library was constructed from poly(A)+ RNA of young green leaves of spinach. Screening with two synthetic mixed nucleotides encoding the partial peptide sequences revealed 19 pos. hybridized clones among 2 + 105 clones. Nucleotide sequence anal. of 2 independent cDNA clones revealed a continuous open reading frame encoding a polypeptide of 325 amino acids with a calculated mol. mass of 34,185 Da. Sequence comparison of the deduced amino acids revealed 53% identity with CSases of *Escherichia coli* and *Salmonella typhimurium*. Sequence homol. was also observed with other metabolic enzymes for amino acids in bacteria and yeast and with rat hemoprotein H-450. A bacterial expression vector was constructed and could genetically complement an *E. coli* auxotroph that lacks CSases. The accumulation of functionally active spinach CSase in *E. coli* was also demonstrated by immunoblotting and assaying enzymic activity. Southern hybridization anal. showed the present of 2-3 copies of the cDNA sequence in the genome of spinach. RNA blot hybridization suggested constitutive expression in leaves and roots of spinach.

L61 ANSWER 90 OF 101 MEDLINE on STN DUPLICATE 29
AB Nucleotide sequences of the *cysK* regions of *Salmonella typhimurium* and *Escherichia coli* have been determined. A total of 3,812 and 2,595 nucleotides were sequenced from *S. typhimurium* and *E. coli*, respectively. Open reading frames of 323 codons were found in both species and were identified as those of *cysK* by comparison of deduced amino acid sequences with amino- and carboxyl-terminal amino acid analyses of the *S. typhimurium* *cysK* gene product O-acetylserine (thiol)-lyase A. The two *cysK* DNA sequences were 85% identical, and the deduced amino acid sequences were 96% identical. The major transcription initiation sites for *cysK* were found to be virtually identical in the two organisms, by using primer extension and S1 nuclease protection techniques. The -35 region corresponding to the major transcription start site was TTCCCC in *S. typhimurium* and TTCCGC in *E. coli*. The deviation of these sequences from the consensus sequence TTGACA may reflect the fact that *cysK* is subject to positive control and requires the *cysB* regulatory protein for expression. Sequences downstream of *cysK* were found to include *ptsH* and a portion of *ptsI*, thus establishing the exact relationship of *cysK* with these two genes. A 290-codon open reading frame, which may represent the *cysZ* gene, was identified upstream of *cysK*.

L61 ANSWER 99 OF 101 HCAPLUS COPYRIGHT 2006 ACS on STN

AB In *S. typhimurium* and *Escherichia coli* the biosynthesis of L-cysteine from L-serine and S042- proceeds along a branched convergent pathway along 1 arm of which S042- is reduced to S2-, while on the other, L-serine is acetylated to O-acetyl-L-serine. This system is subject to pos. genetic control in which growth on a poor S source, O-acetyl-L-serine, and the product of the cysB regulatory gene are all required for derepression. The final step consists of the formation of L-cysteine from O-acetyl-L-serine and S2-. In *S. typhimurium* this reaction is catalyzed by 2 different enzymes, O-acetylserine sulphhydrylase A and O-acetylserine sulphhydrylase B, coded for by *cysK* and *cysM*, resp. Both enzymes are under the control of the cysteine regulon, and either alone is sufficient for cysteine prototrophy during aerobic growth. Although the advantage to the bacterium of having 2 sep. enzymes to carry out the same reaction is unclear, apparently O-acetylserine sulphhydrylase B is preferentially utilized for cysteine biosynthesis during anaerobic growth. One enzyme may prefer free S2- as a substrate while the other may use a bound form of sulfide.

L61 ANSWER 100 OF 101 MEDLINE on STN DUPLICATE 33
AB Triazole and azaserine resistant mutants of *E. coli* K12
affecting *cysK* gene coding for O-acetylserine
sulphydrylase were isolated. The *cysK* gene in *E. coli* is located in the same region of chromosome as the *cycK* gene in *Salmonella typhimurium*. All azaserine and some triazole resistant mutants require cysteine for growth at a normal rate. The *cysK* mutants have reduced sulphate uptake. Stability and transfer by conjugation of triazole resistant phenotype were checked. Differences in sulphate metabolism between closely related organisms *E. coli* and *S. typhimurium* are discussed.

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COST IN U.S. DOLLARS          SINCE FILE      TOTAL
                                ENTRY          SESSION
FULL ESTIMATED COST          34.80          35.01

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE      TOTAL
                                                ENTRY          SESSION
CA SUBSCRIBER PRICE           -5.25          -5.25
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SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 13:41:04 ON 16 MAR 2006

FILE 'HOME' ENTERED AT 15:35:29 ON 16 MAR 2006

FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS,
ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 15:35:37 ON 16 MAR 2006
ALL COPYRIGHTS AND RESTRICTIONS APPLY. SEE HELP USAGETERMS FOR DETAILS.

11 FILES IN THE FILE LIST

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FILE 'MEDLINE'
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801550 12

L1 11082 (IL OR INTERLEUKIN) (W) 12

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138541 INTERLEUKIN
730031 12
L2 12522 (IL OR INTERLEUKIN) (W) 12

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50626 INTERLEUKIN
132100 12
L3 6179 (IL OR INTERLEUKIN) (W) 12

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50167 12
L4 1089 (IL OR INTERLEUKIN) (W) 12

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778415 12
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88047 12
L8 56 (IL OR INTERLEUKIN) (W) 12

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L14 23 L2 (10A)COLI

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98566 COLI
L15 22 L3 (10A)COLI

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45798 COLI
L16 3 L4 (10A)COLI

FILE 'BIOSIS'
276935 COLI
L17 21 L5 (10A)COLI

FILE 'EMBASE'
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L19 43 L7 (10A)COLI

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(20030000-20069999/PY)
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L28 2 L16 NOT 2003-2006/PY

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 L29 13 L17 NOT 2003-2006/PY

FILE 'EMBASE'
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 L30 17 L18 NOT 2003-2006/PY

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 L31 26 L19 NOT 2003-2006/PY

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 L32 0 L20 NOT 2003-2006/PY

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 969797 2003-2006/PY
 L33 20 L21 NOT 2003-2006/PY

FILE 'BIOTECHNO'
 122467 2003-2006/PY
 L34 17 L22 NOT 2003-2006/PY

FILE 'WPIDS'
 3390450 2003-2006/PY
 L35 0 L23 NOT 2003-2006/PY

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 L36 141 L24 NOT 2003-2006/PY

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 L37 39 DUP REM L36 (102 DUPLICATES REMOVED)

=> d tot

L37 ANSWER 1 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Recombinant baculovirus AcNPV-hIL12 expressing human interleukin- 12 and
 its preparation and therapeutic uses thereof
 SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 17 pp.
 CODEN: CNXXEV
 IN Meng, Xiaolin; Xu, Jinping; Yu, Zailin; Fu, Yan
 AN 2003:398910 HCAPLUS
 DN 138:363824
 PATENT NO. KIND DATE APPLICATION NO. DATE

 PI CN 1357622 A 20020710 CN 2001-133631 20011102

L37 ANSWER 2 OF 39 LIFESCI COPYRIGHT 2006 CSA on STN DUPLICATE 1
 TI Innate Immune Responses of Human Neonatal Cells to Bacteria from the
 Normal Gastrointestinal Flora
 SO Infection and Immunity [Infect. Immun.], (2002) vol. 70, no. 12, pp.
 6688-6696.
 ISSN: 0019-9567.
 AU Karlsson, H.; Hessle, C.; Rudin, A.*
 AN 2003:7058 LIFESCI

L37 ANSWER 3 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Modulation of human monocytes by Escherichia coli heat-labile enterotoxin
 B-subunit; altered cytokine production and its functional consequences
 SO Immunology (2002), 106(3), 316-325
 CODEN: IMMUAM; ISSN: 0019-2805
 AU Turcanu, Victor; Hirst, Timothy R.; Williams, Neil A.
 AN 2002:557148 HCAPLUS

DN 137:139339

L37 ANSWER 4 OF 39 MEDLINE on STN DUPLICATE 2
TI Role of the heat shock protein 90 in immune response stimulation by
bacterial DNA and synthetic oligonucleotides.
SO Infection and immunity, (2001 Sep) Vol. 69, No. 9, pp. 5546-52.
Journal code: 0246127. ISSN: 0019-9567.
AU Zhu F G; Pisetsky D S
AN 2001454842 MEDLINE

L37 ANSWER 5 OF 39 MEDLINE on STN DUPLICATE 3
TI Lipopolysaccharides from distinct pathogens induce different classes of
immune responses in vivo.
SO Journal of immunology (Baltimore, Md. : 1950), (2001 Nov 1) Vol. 167, No.
9, pp. 5067-76.
Journal code: 2985117R. ISSN: 0022-1767.
AU Pulendran B; Kumar P; Cutler C W; Mohamadzadeh M; Van Dyke T; Banchereau J
AN 2001567366 MEDLINE

L37 ANSWER 6 OF 39 MEDLINE on STN DUPLICATE 4
TI DNA from protozoan parasites Babesia bovis, Trypanosoma cruzi, and T.
brucei is mitogenic for B lymphocytes and stimulates macrophage expression
of interleukin-12, tumor necrosis factor alpha, and nitric oxide.
SO Infection and immunity, (2001 Apr) Vol. 69, No. 4, pp. 2162-71.
Journal code: 0246127. ISSN: 0019-9567.
AU Shoda L K; Kegerreis K A; Suarez C E; Roditi I; Corral R S; Bertot G M;
Norimine J; Brown W C
AN 2001208132 MEDLINE

L37 ANSWER 7 OF 39 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on
STN
AN 2001247848 ESBIOBASE
TI Interleukin-12 prevents diaphragm muscle deterioration in a septic animal
model
AU Nakahata E.; Shindoh Y.; Takayama T.; Shindoh C.
CS C. Shindoh, Department of Medical Technology, College of Medical
Sciences, Tohoku University, 2-1 Seiryo Machi, Aoba-ku, Sendai 980-8575,
Japan.
E-mail: cshindoh@mail.cc.tohoku.ac.jp
SO Comparative Biochemistry and Physiology - A Molecular and Integrative
Physiology, (2001), 130/4 (653-663), 23 reference(s)
CODEN: CBPAB5 ISSN: 1095-6433
PUI S1095643301003968
DT Journal; Article
CY United States
LA English
SL English

L37 ANSWER 8 OF 39 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI Legionella pneumophila inhibits macrophage IL-12 production by targeting
the MAP kinase cascade.
SO Abstracts of the General Meeting of the American Society for Microbiology,
(2001) Vol. 101, pp. 349. print.
Meeting Info.: 101st General Meeting of the American Society for
Microbiology. Orlando, FL, USA. May 20-24, 2001. American Society of
Microbiology.
ISSN: 1060-2011.
AU Matsunaga, K. [Reprint author]; Klein, T. W. [Reprint author]; Friedman,
H. [Reprint author]; Yamamoto, Y. [Reprint author]
AN 2002:223243 BIOSIS

L37 ANSWER 9 OF 39 MEDLINE on STN DUPLICATE 5
TI Combination suicide/cytokine gene therapy as adjuvants to a defective
herpes simplex virus-based cancer vaccine.
SO Gene therapy, (2001 Feb) Vol. 8, No. 4, pp. 332-9.

Journal code: 9421525. ISSN: 0969-7128.
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AN 2001368278 MEDLINE

L37 ANSWER 10 OF 39 MEDLINE on STN DUPLICATE 6
TI Mucosal immune network in the gut for the control of infectious diseases.
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Ref: 122
Journal code: 9112448. ISSN: 1052-9276.
AU Iijima H; Takahashi I; Kiyono H
AN 2001164194 MEDLINE

L37 ANSWER 11 OF 39 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI IFN-gamma response in patients with Legionnaires' disease (LD).
SO Abstracts of the Interscience Conference on Antimicrobial Agents and Chemotherapy, (2001) Vol. 41, pp. 66. print.
Meeting Info.: 41st Annual Meeting of the Interscience Conference on Antimicrobial Agents and Chemotherapy. Chicago, Illinois, USA. September 22-25, 2001.
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AN 2002:499565 BIOSIS

L37 ANSWER 12 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Protein disulfide isomerase-mediated cell-free assembly of recombinant interleukin-12 p40 homodimers
SO European Journal of Biochemistry (2000), 267(22), 6679-6683
CODEN: EJBCAI; ISSN: 0014-2956
AU Martens, Erik; Alloza, Iraide; Scott, Christopher J.; Billiau, Alfons; Vandenbroueck, Koen
AN 2000:819955 HCAPLUS
DN 134:99275

L37 ANSWER 13 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Modulation of innate and acquired immune responses by *Escherichia coli* heat-labile toxin: distinct pro- and anti-inflammatory effects of the nontoxic AB complex and the enzyme activity
SO Journal of Immunology (2000), 165(10), 5750-5759
CODEN: JOIMA3; ISSN: 0022-1767
AU Ryan, Elizabeth J.; McNeela, Edel; Pizza, Mariagrazia; Rappuoli, Rino; O'Neill, Luke; Mills, Kingston H. G.
AN 2000:825836 HCAPLUS
DN 134:99544

L37 ANSWER 14 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Lack of a role of cytotoxic necrotizing factor 1 toxin from *Escherichia coli* in bacterial pathogenicity and host cytokine response in infected germfree piglets
SO Infection and Immunity (2000), 68(2), 839-847
CODEN: INFIBR; ISSN: 0019-9567
AU Fournout, S.; Dozois, C. M.; Odin, M.; Desautels, C.; Peres, S.; Herault, F.; Daigle, F.; Segafredo, C.; Laffitte, J.; Oswald, E.; Fairbrother, J. M.; Oswald, I. P.
AN 2000:81783 HCAPLUS
DN 132:221165

L37 ANSWER 15 OF 39 MEDLINE on STN DUPLICATE 7
TI Activation of human peripheral blood mononuclear cells by nonpathogenic bacteria in vitro: evidence of NK cells as primary targets.
SO Infection and immunity, (2000 Feb) Vol. 68, No. 2, pp. 752-9.
Journal code: 0246127. ISSN: 0019-9567.
AU Haller D; Blum S; Bode C; Hammes W P; Schiffri E J
AN 2000107081 MEDLINE

L37 ANSWER 16 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN
TI In vitro and in vivo effects of an immunomodulator composed of *Escherichia coli* lipopolysaccharide and *Propionibacterium granulosum*-inactivated cells in pigs
SO Journal of Veterinary Medicine, Series B (2000), 47(8), 619-627
CODEN: JVMBE9; ISSN: 0931-1793
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AN 2000:774188 HCAPLUS
DN 134:324860

L37 ANSWER 17 OF 39 MEDLINE on STN DUPLICATE 8
TI Modulation of interleukin-12 synthesis by DNA lacking the CpG motif and present in a mycobacterial cell wall complex.
SO Cancer immunology, immunotherapy : CII, (2000 Aug) Vol. 49, No. 6, pp. 325-34.
Journal code: 8605732. ISSN: 0340-7004.
AU Filion M C; Filion B; Reader S; Menard S; Phillips N C
AN 2000402389 MEDLINE

L37 ANSWER 18 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Renal cytokine responses in acute *Escherichia coli* pyelonephritis in IL-6-deficient mice
SO Clinical and Experimental Immunology (2000), 122(2), 200-206
CODEN: CEXIAL; ISSN: 0009-9104
AU Khalil, A.; Tullus, K.; Bartfai, T.; Bakhet, M.; Jaremko, G.; Brauner, A.
AN 2000:868531 HCAPLUS
DN 135:59984

L37 ANSWER 19 OF 39 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights reserved on STN
TI [Increase of levels of interleukin-2 and -12 as well as tumor necrosis factor- α in cancer patients treated with serial doses of *Propionibacterium acnes* and endotoxin of *Escherichia coli*].
ANSTIEG DER SERUMSPIEGEL VON INTERLEUKIN-2, TUMORNEKROSE-FAKTOR- α UND INTERLEUKIN-12 NACH APPLIKATION VON PROPIONIBACTERIUM ACNES UND ESCHERICHIA-COLI-ENDOTOXIN BEI KREBSPATIENTEN.
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Refs: 22
ISSN: 0340-8671 CODEN: BIMEFA
AU Palencia C.; Rodriguez V.M.; Sepulveda M.
AN 2000281015 EMBASE

L37 ANSWER 20 OF 39 LIFESCI COPYRIGHT 2006 CSA on STN DUPLICATE 9
TI Induction and regulation of Th1-inducing cytokines by bacterial DNA, lipopolysaccharide, and heat-inactivated bacteria
SO Infection and Immunity [Infect. Immun.], (1999) vol. 67, no. 12, pp. 6257-6263.
ISSN: 0019-9567.
AU Huang, L.-Y.; Krieg, A.M.; Eller, N.; Scott, D.E.*
AN 2000:24496 LIFESCI

L37 ANSWER 21 OF 39 MEDLINE on STN DUPLICATE 10
TI Prostaglandin E(1) protects against liver injury induced by *Escherichia coli* infection via a dominant Th2-like response of liver T cells in mice.
SO Hepatology (Baltimore, Md.), (1999 Dec) Vol. 30, No. 6, pp. 1464-72.
Journal code: 8302946. ISSN: 0270-9139.
AU Mokuno Y; Takano M; Matsuguchi T; Nishimura H; Washizu J; Naiki Y; Nimura Y; Yoshikai Y
AN 2000042322 MEDLINE

L37 ANSWER 22 OF 39 MEDLINE on STN DUPLICATE 11
TI Methyl-prednisolone up-regulates monocyte interleukin-10 production in stimulated whole blood.

SO Scandinavian journal of immunology, (1999 May) Vol. 49, No. 5, pp. 548-53.
Journal code: 0323767. ISSN: 0300-9475.

AU Hodge S; Hodge G; Flower R; Han P
AN 1999255730 MEDLINE

L37 ANSWER 23 OF 39 LIFESCI COPYRIGHT 2006 CSA on STN DUPLICATE 12
TI Bacterial DNA and CpG-Containing Oligodeoxynucleotides Activate Cutaneous Dendritic Cells and Induce IL-12 Production: Implications for the Augmentation of Th1 Responses

SO International Archives of Allergy and Immunology [Int. Arch. Allergy Immunol.], (19990000) vol. 118, no. 2-4, pp. 457-461.
ISSN: 1018-2438.

AU Jakob, T.; Walker, P.S.; Krieg, A.M.; Von Stebut, E.; Udey, M.C.; Vogel, J.C.
AN 1999:84322 LIFESCI

L37 ANSWER 24 OF 39 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN
AN 1999203122 ESBIOBASE
TI The intestinal microflora regulates cytokine production positively in spleen-derived macrophages but negatively in bone marrow-derived macrophages

AU Nicaise P.; Gleizes A.; Sandre C.; Kergot R.; Lebrec H.; Forestier F.; Labarre C.
CS C. Labarre, Faculte de Pharmacie, Dept. Microbiologie et Immunologie, Universite Paris XI, 5 rue JB-Clement, 92296 Chatenay-Malabry Cedex, France.

SO European Cytokine Network, (1999), 10/3 (365-372), 50 reference(s)
CODEN: ECYNEJ ISSN: 1148-5493
DT Journal; Article
CY France
LA English
SL English

L37 ANSWER 25 OF 39 MEDLINE on STN DUPLICATE 13
TI Lactobacilli from human gastrointestinal mucosa are strong stimulators of IL-12 production.

SO Clinical and experimental immunology, (1999 May) Vol. 116, No. 2, pp. 276-82.
Journal code: 0057202. ISSN: 0009-9104.

AU Hessle C; Hanson L A; Wold A E
AN 1999271056 MEDLINE

L37 ANSWER 26 OF 39 MEDLINE on STN DUPLICATE 14
TI Prostaglandin E2 protects against liver injury after Escherichia coli infection but hampers the resolution of the infection in mice.

SO Journal of immunology (Baltimore, Md. : 1950), (1998 Sep 15) Vol. 161, No. 6, pp. 3019-25.
Journal code: 2985117R. ISSN: 0022-1767.

AU Takano M; Nishimura H; Kimura Y; Washizu J; Mokuno Y; Nimura Y; Yoshikai Y
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L37 ANSWER 27 OF 39 MEDLINE on STN DUPLICATE 15
TI Construction and characterization of a triple-recombinant vaccinia virus encoding B7-1, interleukin 12, and a model tumor antigen.

SO Journal of the National Cancer Institute, (1998 Dec 16) Vol. 90, No. 24, pp. 1881-7.
Journal code: 7503089. ISSN: 0027-8874.

AU Carroll M W; Overwijk W W; Surman D R; Tsung K; Moss B; Restifo N P
AN 1999077461 MEDLINE

L37 ANSWER 28 OF 39 MEDLINE on STN DUPLICATE 16
TI Bacterially preexposed T cells impair bacterial elimination by non-Th1/Th2 cell mechanisms in a model of intra-abdominal infection.

SO Surgery, (1998 Aug) Vol. 124, No. 2, pp. 418-28.

Journal code: 0417347. ISSN: 0039-6060.
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 AN 1998371424 MEDLINE

L37 ANSWER 29 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Cloning and expression of ovine interleukin-5 and interleukin-12 cDNAs and use of the cytokines for treatment and prophylaxis of livestock infections
 SO PCT Int. Appl., 77 pp.
 CODEN: PIXXD2
 IN Seow, Heng-Fong; Wood, Paul
 AN 1997:168552 HCAPLUS
 DN 126:153672

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9700321	A1	19970103	WO 1996-AU360	19960614
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA				
AU 9659917	A1	19970115	AU 1996-59917	19960614

L37 ANSWER 30 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Cytokine gene expression during experimental *Escherichia coli* pyelonephritis in mice
 SO Journal of Urology (Baltimore) (1997), 158(4), 1576-1580
 CODEN: JOURAA; ISSN: 0022-5347
 AU Khalil, Adli; Brauner, Annelie; Bakhiet, Moiz; Burman, Lars G.; Jaremko, Georg; Wretlind, Bengt; Tullus, Kjell
 AN 1998:655862 HCAPLUS
 DN 130:65093

L37 ANSWER 31 OF 39 MEDLINE on STN DUPLICATE 17
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L37 ANSWER 39 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN
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L37 ANSWER 12 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN
AB Interleukin-12 (IL-12) is a heterodimeric cytokine composed of two
subunits, p35 and p40. The disulfide-linked homodimer (p40)2 has been
shown to be a potent IL-12 antagonist. In the present study, the p40
subunit was refolded from *Escherichia coli* inclusion bodies. Formation of
(p40)2 was greatly increased in a redox buffer containing reduced and oxidized
glutathione, but was not significantly affected by the cosolvents urea,

GdnHCl or Chaps. While protein disulfide isomerase (PDI), GroEL/ES or DnaK/J/GrpE suppressed aggregation during refolding of p40, only DnaK/J/GrpE and PDI enhanced p40 dimerization. Oxidative assembly of p40 into (p40)₂ by PDI, but not suppression of aggregation, was strongly dependent on inclusion of BSA in the refolding buffer. It is concluded that both chaperone-like and disulfide isomerase effects are essential for correct folding of p40 into dimers.

L37 ANSWER 29 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN

AB The present invention relates to a nucleic acid mol. comprising a nucleotide sequence encoding, or complementary to a sequence encoding, an ovine IL-5 or IL-12 cytokine mol. The invention further provides recombinant ovine IL-5 and IL-12 polypeptides which are useful as immune response modulators in livestock animals. The cDNAs for sheep IL-5 and for the 35- and 40-kilodalton subunits of sheep IL-12 were cloned and sequenced. Escherichia coli expression vectors for these cytokines and mammalian cell expression vectors for the IL-12 subunits were prepared. Adjuvant activity of recombinant IL-5 and IL-12 in sheep was demonstrated.

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